17 M018 Library

METEOROLOGICAL OFFICE 1 JUL 1963 LIBRARY

# HYDROLOGICAL MEMORANDA NO. 17

## Rainfall over the areas of the South Wales, Glamorgan, Wye and Usk River Boards 1916-1950

### 1. Rainfall, 1916-1950;

1.1. Introduction. The estimation of standard-period averages for the months or for the year, is carried out in three stages; the selection of sound, homogeneous records complete for the 35 years, 1916-50, which provide arithmetic means of monthly and annual rainfall, the basic values for all other work; the estimation of standard-period, annual averages for short-period stations; the estimation of standard-period, monthly averages for stations in the second group, where these are needed for special purposes.

A detailed account of the methods developed and used in the Meteorological Office (M.O.3.) to estimate standard-period averages for short-period records, is given in Hydrological Memoranda No.5.

It is possible to process the data in a number of ways but the maps and tables are presented here in the simplest, most precise forms in order to be of use to a wide range of enquirers.

1.2. The Primary Survey, for Great Britain and Northern Ireland, of stations with complete records during 1916-1950, included some cases where the site had been changed to one with a better exposure and observations from both sites had been recorded for a few years. Attempts were made to amend the earlier readings by comparison of the data during a period of overlap, in order to have a set of values from 1916, to the date of the change, which would be representative of the later, and better, record. But since the earlier exposures were usually unsatisfactory (being over-exposed or over-sheltered), the results were mostly erratic and the amended sets of values were not homogeneous. In a few cases, small breaks in a long record were completed by using estimated values, based on a nearby station, with or without the use of a modifying factor.

Of the many records examined, monthly and annual averages were accepted for 56 stations , 11 for South Wales, 18 for Glamorgan, 14 for the Wye and 13 for the Usk River Boards.
The accepted values (in inches), together with the proportions (per cent) of each monthly average to the annual average, are given in Table I, together with the altitude and the National Grid reference for each station. Most of these averages were included in H.M.S.O. publication, M.O.635, "Averages of Rainfall for Great Britain and Northern Ireland, 1916-1950", some were omitted because other stations were so near.

The percentage proportion of monthly averages to the annual averages for the long-period stations were used to draw a series of twelve monthly maps from which it is possible to estimate the percentage of average annual rainfall, for any place, for each month of the year. These maps are shown as Figure 1. Values estimated for a few points between the isopercental lines have been added to give a clearer indication of the variations from place to place. The points chosen are not necessarily the same for each map.

1.3. The Secondary Survey of short-period stations was undertaken next, using records up to the time of the survey, usually into the late 1950's. Lond-period stations, whose averages had been rejected from the Primary Survey because the record was not homogeneous, were examined again and averages were estimated for the later (and usually improved) part of the series of observations. Averages based on data for less than 5 years were not usually accepted for publication.

/.A list



3 8078 0002 7034 0

ORGS UKMO H
National Meteorological Library
FitzRoy Road, Exeter, Devon. EX1 3PB

A list of the accepted averages, for the short-period stations, is given in Table II together with the altitude and National Grid reference for each. The stations are listed in an order based on natural drainage areas which will be used for the first time in British Rainfall, 1961.

These averages, together with the long-period averages listed in Table I, were plotted on Ordnance Survey Maps (scale, 4 miles to the inch), and used to draw the lines of average annual rainfall, 1916-1950. The map is shown as Figure 2. The Secondary Survey is frequently revised for special areas using the most up-to-date observations for relatively new stations and the map is subject to revision from time to time. The redrawing of the isohyets usually results in greater detail and perhaps a clearer definition of a wet area as more and more observations become available from improved River Board networks of rain-gauges. Drastic changes are not expected. In Tables I, II and III, with a few exceptions, the averages quoted are for records still being maintained in 1963.

1.4. Monthly Averages for a further group of stations were next estimated for use in the Monthly Weather Report and for enquiries. For this purpose some stations were chosen from those listed in Table II to supplement those listed in Table I. To find the monthly averages, the monthly proportions (per cent of annual average) were chosen from the equipercental maps (see Fig. 1) so that the total for the twelve months was 100. These monthly percentages were then used to apportion the annual average (in inches) amongst the months. The results are given in Table III.

1.5. Daily Rainfall, 1916-50. Five of the initial 56 records which were accepted for the Primary Survey (1.2.) were analysed further. These records had regular daily entries, for the 24-hour period 0900 to 0900, for each of the 35 years, 1916-1950. Table IVa gives, for each of the stations, the 35-year totals for each day of the year (in inches). Table IVb gives 1/35 of all possible totals from .17 in. to 24.67 in., thus providing a reduction table for the values in IVa to give average daily falls from "tace" to .70 in. For 29 February the reduction factor is, of course, 1/9.

These daily averages can be re-grouped as 5-day means, 7-day means, consecutive or sliding means or in whatever form suits a specific requirement.

2. Frequencies of Daily Rainfall, 1916-1950. The same set of daily values used for Table IVa were re-grouped to give frequency tables with intervals of .01 inch. These have been re-arranged in Table V, to give accumlated frequencies with intervals of .10 in. up to 2.50 in. and a wider grouping above this.

3. Extremes of Rainfall. The records for the 35-year period, 1916-1950, for the stations used in Tables IV and V were also used to find maximum and minimum values for the year and for each month and also maximum daily values for each month. These maxima and minima are given in Table VI and Table VII. Additional extremes are given in these tables to cover the 50-year period, 1911-1960.

Appendix I

Intense Falls. Falls of 2 hours or less, which have been recorded in British Rainfall and rank as "noteworthy", "remarkable" or "very rare", are listed in Appendix I.

H. ROWSELL

Meteorological Office, M.O.3a
Bracknell, Berkshire.

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas

Wye River Board

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | Jly | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radnorshire | Aberhenllan | 1070 | SN(22)898717 | 7.85 | 6.05 | 4.20 | 4.22 | 3.83 | 3.58 | 4.90 | 5.22 | 5.36 | 7.19 | 7.41 | 7.68 | 67.49 | Inch |
| | | | | 11.6 | 9.0 | 6.2 | 6.2 | 5.7 | 5.3 | 7.3 | 7.7 | 7.9 | 10.7 | 11.0 | 11.4 | 100.0 | % |
| " | Figin | 1620 | SN(22)828715 | 9.64 | 7.41 | 5.37 | 5.24 | 4.74 | 5.03 | 6.84 | 7.19 | 7.21 | 9.04 | 9.03 | 9.13 | 85.87 | Inch |
| | | | | 11.2 | 8.6 | 6.3 | 6.1 | 5.5 | 5.9 | 8.0 | 8.4 | 8.4 | 10.5 | 10.5 | 10.6 | 100.0 | % |
| Cardiganshire | Llyn Gynon | 1450 | SN(22)801651 | 7.83 | 5.78 | 4.47 | 4.35 | 4.09 | 4.29 | 5.92 | 6.06 | 6.09 | 7.63 | 7.57 | 7.73 | 71.81 | Inch |
| | | | | 10.9 | 8.1 | 6.2 | 6.1 | 5.7 | 6.0 | 8.2 | 8.4 | 8.5 | 10.6 | 10.5 | 10.8 | 100.0 | % |
| Radnorshire | Esgair y Gader | 1655 | SN(22)859665 | 8.17 | 6.11 | 4.55 | 4.48 | 4.04 | 3.95 | 5.47 | 5.71 | 5.99 | 7.57 | 7.76 | 7.91 | 71.71 | Inch |
| | | | | 11.4 | 8.5 | 6.3 | 6.3 | 5.6 | 5.5 | 7.6 | 8.0 | 8.4 | 10.6 | 10.8 | 11.0 | 100.0 | % |
| Brecknock-shire | Nant-y-car | 1560 | SN(22)877617 | 9.45 | 6.67 | 5.09 | 4.79 | 4.57 | 4.28 | 5.79 | 6.27 | 6.27 | 8.24 | 8.60 | 8.91 | 78.93 | Inch |
| | | | | 12.0 | 8.5 | 6.5 | 6.1 | 5.8 | 5.4 | 7.3 | 7.9 | 7.9 | 10.4 | 10.9 | 11.3 | 100.0 | % |
| " | Cors-yr-·hach | 1805 | SN(22)859600 | 10.73 | 7.46 | 6.17 | 5.74 | 5.12 | 5.02 | 6.87 | 7.34 | 7.34 | 9.28 | 9.75 | 9.97 | 90.79 | Inch |
| | | | | 11.8 | 8.2 | 6.8 | 6.3 | 5.7 | 5.5 | 7.6 | 8.1 | 8.1 | 10.2 | 10.7 | 11.0 | 100.0 | % |
| " | Llysdinam | 646 | SO(32)009585 | 5.03 | 3.52 | 2.77 | 2.85 | 2.96 | 2.66 | 3.41 | 3.47 | 3.43 | 4.69 | 4.83 | 4.75 | 44.37 | Inch |
| | | | | 11.3 | 7.9 | 6.3 | 6.4 | 6.7 | 6.0 | 7.7 | 7.8 | 7.7 | 10.6 | 10.9 | 10.7 | 100.0 | % |
| " | Trallwn | 1000 | SN(22)878541 | 9.70 | 6.41 | 4.94 | 4.76 | 4.91 | 4.50 | 5.74 | 6.17 | 6.39 | 8.22 | 8.78 | 8.93 | 79.45 | Inch |
| | | | | 12.2 | 8.1 | 6.2 | 6.0 | 6.2 | 5.7 | 7.2 | 7.8 | 8.0 | 10.3 | 11.1 | 11.2 | 100.00 | % |
| Hereford-shire | Sarnesfield Grange | 400 | SO(32)368509 | 2.97 | 2.14 | 1.92 | 1.95 | 2.24 | 1.78 | 2.42 | 2.66 | 2.26 | 3.03 | 3.12 | 2.62 | 29.11 | Inch |
| | | | | 10.2 | 7.4 | 6.6 | 6.7 | 7.7 | 6.1 | 8.3 | 9.1 | 7.8 | 10.4 | 10.7 | 9.0 | 100.0 | % |
| " | Breinton Court | 238 | SO(32)470396 | 2.58 | 1.78 | 1.77 | 1.79 | 2.16 | 1.65 | 2.28 | 2.42 | 2.27 | 2.69 | 2.71 | 2.30 | 26.40 | Inch |
| | | | | 9.8 | 6.7 | 6.7 | 6.8 | 8.2 | 6.2 | 8.6 | 9.2 | 8.6 | 10.2 | 10.3 | 8.7 | 100.0 | % |
| " | Grantsfield | 424 | SO(32)526603 | 2.79 | 1.94 | 1.83 | 2.01 | 2.44 | 1.76 | 2.52 | 2.57 | 2.24 | 2.80 | 2.86 | 2.55 | 28.31 | Inch |
| | | | | 9.9 | 6.8 | 6.5 | 7.1 | 8.6 | 6.2 | 8.9 | 9.1 | 7.9 | 9.9 | 10.1 | 9.0 | 100.0 | % |



G.02885/CJH/7/63/100

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas (continued)

Wye River Board (continued)

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Herefordshire | Ross-on-Wye | 223 | SO(32)598233 | 2.90 | 2.01 | 1.94 | 1.96 | 2.17 | 1.49 | 2.29 | 2.38 | 2.30 | 2.81 | 2.91 | 2.71 | 27.87 | Inch |
| | | | | 10.4 | 7.2 | 7.0 | 7.0 | 7.8 | 5.4 | 8.2 | 8.5 | 8.3 | 10.1 | 10.4 | 9.7 | 100.0 | % |
| " | Walford, Hill Court. | 126 | SO(32)575215 | 3.06 | 2.13 | 2.00 | 1.98 | 2.21 | 1.62 | 2.37 | 2.57 | 2.35 | 2.96 | 3.04 | 2.82 | 29.11 | Inch |
| | | | | 10.5 | 7.3 | 6.9 | 6.8 | 7.6 | 5.6 | 8.1 | 8.8 | 8.1 | 10.2 | 10.4 | 9.7 | 100.0 | % |
| " | Vowchurch | 410 | SO(32)349362 | 4.10 | 2.73 | 2.47 | 2.46 | 2.59 | 1.98 | 2.72 | 2.89 | 2.68 | 3.58 | 4.06 | 3.69 | 33.95 | Inch |
| | | | | 11.4 | 7.6 | 6.9 | 6.8 | 7.2 | 5.5 | 7.6 | 8.0 | 7.5 | 9.9 | 11.3 | 10.3 | 100.0 | % |
| | | | | | | | Usk River Board | | | | | | | | | | |
| Monmouthshire | Newchurch | 490 | ST(31)437964 | 4.84 | 3.19 | 3.03 | 2.84 | 2.97 | 2.49 | 3.77 | 4.09 | 3.75 | 4.66 | 4.68 | 4.55 | 44.86 | Inch |
| | | | | 10.8 | 7.1 | 6.8 | 6.3 | 6.6 | 5.6 | 8.4 | 9.1 | 8.4 | 10.4 | 10.4 | 10.1 | 100.0 | % |
| " | Nantypridd | 500 | ST(31)436944 | 4.65 | 3.03 | 2.83 | 2.73 | 2.93 | 2.47 | 3.72 | 4.16 | 3.71 | 4.55 | 4.45 | 4.33 | 43.56 | Inch |
| | | | | 10.7 | 7.0 | 6.5 | 6.3 | 6.7 | 5.7 | 8.5 | 9.6 | 8.5 | 10.4 | 10.2 | 9.9 | 100.0 | % |
| " | Llanvaches | 456 | ST(31)428929 | 4.39 | 2.84 | 2.62 | 2.56 | 2.76 | 2.31 | 3.40 | 3.78 | 3.41 | 4.25 | 4.19 | 4.07 | 40.58 | Inch |
| | | | | 10.8 | 7.0 | 6.5 | 6.3 | 6.8 | 5.7 | 8.4 | 9.3 | 8.4 | 10.5 | 10.3 | 10.0 | 100.0 | % |
| Brecknockshire | Cray Reservoir No. 2. | 1019 | SN(22)880210 | 10.15 | 6.63 | 5.71 | 5.13 | 4.96 | 4.69 | 6.40 | 6.99 | 6.35 | 9.01 | 9.24 | 9.59 | 84.85 | Inch |
| | | | | 12.0 | 7.8 | 6.7 | 6.1 | 5.9 | 5.5 | 7.5 | 8.2 | 7.5 | 10.6 | 10.9 | 11.3 | 100.0 | % |
| " | Grwyne Fawr | 1787 | SO(32)233307 | 6.27 | 4.64 | 4.06 | 4.02 | 3.89 | 3.28 | 4.31 | 4.78 | 4.61 | 6.08 | 6.16 | 6.03 | 58.13 | Inch |
| | | | | 10.8 | 8.0 | 7.0 | 6.9 | 6.7 | 5.6 | 7.4 | 8.2 | 7.9 | 10.5 | 10.6 | 10.4 | 100.0 | % |
| " | Blaen-y-cum | 1423 | SO(32)246295 | 5.94 | 4.47 | 3.83 | 3.98 | 3.72 | 3.10 | 4.22 | 4.60 | 4.51 | 5.88 | 6.04 | 5.84 | 56.13 | Inch |
| | | | | 10.6 | 8.0 | 6.8 | 7.1 | 6.6 | 5.5 | 7.5 | 8.2 | 8.0 | 10.5 | 10.8 | 10.4 | 100.0 | % |
| Monmouthshire | Coed Dias | 900 | SO(32)275244 | 4.78 | 3.62 | 3.24 | 3.30 | 3.06 | 2.50 | 3.54 | 3.71 | 3.57 | 4.71 | 4.95 | 4.76 | 45.74 | Inch |
| | | | | 10.5 | 7.9 | 7.1 | 7.2 | 6.7 | 5.5 | 7.7 | 8.1 | 7.8 | 10.3 | 10.8 | 10.4 | 100.0 | % |



G.02885/CJH/7/63/100.

TABLE I Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas (continued)

Usk River Board (continued)

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brecknockshire | Llangynidr No.2 | 1471 | SO(32)15143 | 8.14<br>12.3 | 5.40<br>8.2 | 4.43<br>6.7 | 4.18<br>6.3 | 3.86<br>5.8 | 3.48<br>5.3 | 4.69<br>7.1 | 5.04<br>7.6 | 4.98<br>7.5 | 7.30<br>11.1 | 7.19<br>10.9 | 7.41<br>11.2 | 66.10<br>100.0 | Inch<br>% |
| " | Llangynidr No.3 | 1468 | SO(32)150141 | 8.41<br>12.4 | 5.56<br>8.2 | 4.51<br>6.7 | 4.26<br>6.3 | 3.95<br>5.8 | 3.55<br>5.2 | 4.78<br>7.1 | 5.18<br>7.6 | 5.16<br>7.6 | 7.45<br>11.0 | 7.40<br>10.9 | 7.59<br>11.2 | 67.80<br>100.0 | Inch<br>% |
| " | Carno, East | 1391 | SO(32)163136 | 7.71<br>12.2 | 5.11<br>8.1 | 4.26<br>6.7 | 4.06<br>6.4 | 3.70<br>5.9 | 3.31<br>5.2 | 4.44<br>7.0 | 4.77<br>7.6 | 4.76<br>7.5 | 7.02<br>11.1 | 6.92<br>11.0 | 7.16<br>11.3 | 63.22<br>100.0 | Inch<br>% |
| Monmouthshire | Carno, West | 1412 | SO(32)156132 | 8.03<br>12.2 | 5.35<br>8.1 | 4.44<br>6.7 | 4.26<br>6.4 | 3.86<br>5.8 | 3.45<br>5.2 | 4.61<br>7.0 | 5.06<br>7.7 | 5.02<br>7.6 | 7.33<br>11.1 | 7.17<br>10.9 | 7.48<br>11.3 | 66.06<br>100.0 | Inch<br>% |
| " | Carno, South | 1262 | SO(32)164128 | 7.91<br>12.2 | 5.22<br>8.1 | 4.37<br>6.8 | 4.18<br>6.5 | 3.83<br>5.9 | 3.37<br>5.2 | 4.50<br>7.0 | 4.92<br>7.6 | 4.86<br>7.5 | 7.08<br>11.0 | 6.98<br>10.8 | 7.38<br>11.4 | 64.60<br>100.0 | Inch<br>% |
| " | Abertillery Park | 700 | SO(32)207049 | 6.84<br>11.7 | 4.55<br>7.7 | 3.97<br>6.8 | 3.65<br>6.2 | 3.72<br>6.3 | 3.22<br>5.5 | 4.51<br>7.7 | 4.68<br>8.0 | 4.49<br>7.6 | 6.37<br>10.9 | 6.34<br>10.8 | 6.33<br>10.8 | 58.67<br>100.0 | Inch<br>% |
| | | | | | | | Glamorgan River Board | | | | | | | | | | |
| Glamorgan | Cardiff | 202 | ST(31)195793 | 4.58<br>10.9 | 3.00<br>7.1 | 2.54<br>6.0 | 2.56<br>6.1 | 2.92<br>6.9 | 2.28<br>5.4 | 3.43<br>8.2 | 3.87<br>9.2 | 3.68<br>8.8 | 4.50<br>10.7 | 4.39<br>10.4 | 4.35<br>10.3 | 42.10<br>100.0 | Inch<br>% |
| " | Cardiff, Heath Filters | 132 | ST(31)181799 | 4.83<br>11.0 | 3.26<br>7.5 | 2.65<br>6.1 | 2.68<br>6.1 | 2.99<br>6.8 | 2.31<br>5.3 | 3.48<br>8.0 | 3.98<br>9.1 | 3.74<br>8.5 | 4.66<br>10.6 | 4.60<br>10.5 | 4.61<br>10.5 | 43.79<br>100.0 | Inch<br>% |
| " | Cardiff, Roath Park | 51 | ST(31)199787 | 4.71<br>10.9 | 3.16<br>7.3 | 2.66<br>6.1 | 2.68<br>6.2 | 2.98<br>6.9 | 2.31<br>5.3 | 3.42<br>7.9 | 3.97<br>9.2 | 3.81<br>8.8 | 4.64<br>10.7 | 4.50<br>10.4 | 4.48<br>10.3 | 43.32<br>100.0 | Inch<br>% |

G.02885/CJH/7/63/100.

TABLE I Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas (continued)

Glamorgan River Board (continued)

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brecknockshire | Beacons Reservoir | 1357 | SN(22)987192 | 9.91 | 6.82 | 5.21 | 5.12 | 4.75 | 4.80 | 6.51 | 6.87 | 6.71 | 8.91 | 9.23 | 9.10 | 83.94 | Inch |
| | | | | 11.8 | 8.1 | 6.2 | 6.1 | 5.7 | 5.7 | 7.8 | 8.2 | 8.0 | 10.6 | 11.0 | 10.8 | 100.0 | % |
| " | Cantref Reservoir | 1120 | SN(22)995155 | 8.82 | 6.14 | 4.55 | 4.47 | 4.18 | 4.26 | 5.57 | 5.97 | 5.77 | 7.94 | 7.99 | 8.00 | 73.66 | Inch |
| | | | | 12.0 | 8.3 | 6.2 | 6.1 | 5.7 | 5.8 | 7.5 | 8.1 | 7.8 | 10.8 | 10.8 | 10.9 | 100.0 | % |
| " | Neuadd Reservoir No. 6. | 2099 | SO(32)011209 | 11.86 | 7.71 | 6.68 | 5.92 | 5.57 | 5.68 | 7.82 | 8.16 | 7.88 | 10.44 | 10.57 | 10.62 | 98.91 | Inch |
| | | | | 12.0 | 7.8 | 6.8 | 6.0 | 5.6 | 5.7 | 7.9 | 8.2 | 8.0 | 10.6 | 10.7 | 10.7 | 100.0 | % |
| " | Neuadd Reservoir No. 8. | 1723 | SO(32)019202 | 10.81 | 6.84 | 5.74 | 5.50 | 5.16 | 5.10 | 6.96 | 7.44 | 7.21 | 9.43 | 9.76 | 9.74 | 89.69 | Inch |
| | | | | 12.0 | 7.6 | 6.4 | 6.1 | 5.8 | 5.7 | 7.8 | 8.3 | 8.0 | 10.5 | 10.9 | 10.9 | 100.0 | % |
| " | Neuadd Reservoir No. 10. | 1700 | SO(32)032193 | 9.07 | 6.04 | 5.00 | 4.95 | 4.52 | 4.32 | 5.97 | 6.18 | 6.06 | 8.19 | 8.44 | 8.37 | 77.11 | Inch |
| | | | | 11.8 | 7.8 | 6.5 | 6.4 | 5.9 | 5.6 | 7.7 | 8.0 | 7.9 | 10.6 | 10.9 | 10.9 | 100.0 | % |
| " | Pentwyn Reservoir | 1120 | SO(32)056145 | 8.44 | 5.80 | 4.59 | 4.44 | 4.12 | 3.86 | 5.39 | 5.67 | 5.61 | 7.64 | 7.80 | 7.68 | 71.04 | Inch |
| | | | | 11.9 | 8.2 | 6.5 | 6.2 | 5.8 | 5.4 | 7.6 | 8.0 | 7.9 | 10.7 | 11.0 | 10.8 | 100.0 | % |
| Glamorgan | Treharris Reservoir. | 765 | ST(31)098975 | 6.66 | 4.44 | 3.45 | 3.12 | 3.31 | 2.88 | 4.17 | 4.42 | 4.43 | 6.30 | 6.45 | 6.36 | 55.99 | Inch |
| | | | | 11.9 | 7.9 | 6.2 | 5.6 | 5.9 | 5.1 | 7.4 | 7.9 | 7.9 | 11.3 | 11.5 | 11.4 | 100.0 | % |
| " | Treherbert, Tyn-y-Waun No. 1. | 801 | SS(21)932994 | 11.58 | 8.02 | 5.83 | 5.38 | 4.96 | 4.85 | 7.05 | 7.65 | 7.37 | 9.86 | 10.42 | 10.61 | 93.58 | Inch |
| | | | | 12.4 | 8.6 | 6.2 | 5.8 | 5.3 | 5.2 | 7.5 | 8.2 | 7.9 | 10.5 | 11.1 | 11.3 | 100.0 | % |
| " | Treherbert, Tyn-y-Waun No. 2. | 801 | SS(21)932994 | 11.55 | 7.98 | 5.83 | 5.37 | 4.98 | 4.87 | 7.04 | 7.67 | 7.43 | 9.88 | 10.46 | 10.61 | 93.67 | Inch |
| | | | | 12.3 | 8.5 | 6.2 | 5.7 | 5.3 | 5.2 | 7.5 | 8.2 | 8.0 | 10.6 | 11.2 | 11.3 | 100.0 | % |
| " | Lluest Wen Reservoir | 1280 | SN(22)950015 | 11.56 | 7.98 | 5.69 | 5.11 | 4.97 | 5.10 | 7.10 | 7.78 | 7.50 | 10.13 | 10.51 | 10.59 | 94.02 | Inch |
| | | | | 12.3 | 8.5 | 6.0 | 5.4 | 5.3 | 5.4 | 7.5 | 8.3 | 8.0 | 10.8 | 11.2 | 11.3 | 100.0 | % |

TABLE I Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas (continued)

Glamorgan River Board (continued)

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | Jun | Jly | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Glamorgan | Lower Penarth | 66 | ST(31)183697 | 3.74 | 2.47 | 2.07 | 2.14 | 2.51 | 1.86 | 3.00 | 3.57 | 3.36 | 4.02 | 3.74 | 3.56 | 36.04 | Inch |
| | | | | 10.4 | 6.8 | 5.7 | 5.9 | 7.0 | 5.2 | 8.3 | 9.9 | 9.3 | 11.2 | 10.4 | 9.9 | 100.0 | % |
| " | Merthyr Mawr | 75 | SS(21)889779 | 4.77 | 3.25 | 2.73 | 2.73 | 2.87 | 2.42 | 3.87 | 4.45 | 4.29 | 4.82 | 4.78 | 4.60 | 45.58 | Inch |
| | | | | 10.5 | 7.1 | 6.0 | 6.0 | 6.3 | 5.3 | 8.5 | 9.7 | 9.4 | 10.6 | 10.5 | 10.1 | 100.0 | % |
| " | Llanharan Sewage Works | 175 | SS(21)974821 | 5.42 | 3.68 | 2.90 | 2.98 | 3.12 | 2.63 | 4.26 | 4.68 | 4.54 | 5.29 | 5.37 | 5.10 | 49.97 | Inch |
| | | | | 10.8 | 7.4 | 5.8 | 6.0 | 6.2 | 5.3 | 8.5 | 9.4 | 9.1 | 10.6 | 10.7 | 10.2 | 100.0 | % |
| " | Llyn Fawr Reservoir No. 1. | 1220 | SN(22)918033 | 11.30 | 7.86 | 5.74 | 5.23 | 4.98 | 4.87 | 7.11 | 7.94 | 7.69 | 10.00 | 10.55 | 10.60 | 93.87 | Inch |
| | | | | 12.0 | 8.4 | 6.1 | 5.6 | 5.3 | 5.2 | 7.6 | 8.5 | 8.2 | 10.6 | 11.2 | 11.3 | 100.0 | % |
| " | Briton Ferry | 503 | SS(21)752942 | 5.32 | 3.62 | 2.91 | 2.85 | 3.06 | 2.90 | 4.49 | 4.60 | 4.58 | 5.48 | 5.47 | 5.25 | 50.53 | Inch |
| | | | | 10.5 | 7.2 | 5.8 | 5.6 | 6.1 | 5.7 | 8.9 | 9.1 | 9.1 | 10.8 | 10.8 | 10.4 | 100.0 | % |
| | | | | | | | S. W. Wales River Board | | | | | | | | | | |
| Glamorgan | Ystalyfera | 240 | SN(22)768088 | 8.13 | 5.25 | 4.33 | 3.95 | 3.96 | 4.09 | 5.74 | 6.17 | 5.85 | 7.33 | 7.59 | 7.76 | 70.15 | Inch |
| | | | | 11.6 | 7.5 | 6.2 | 5.6 | 5.6 | 5.8 | 8.2 | 8.8 | 8.3 | 10.5 | 10.8 | 11.1 | 100.0 | % |
| Carmarthenshire | Cumlleidi Waterworks | 240 | SN(22)519031 | 5.72 | 3.93 | 3.12 | 2.99 | 3.21 | 3.08 | 4.36 | 4.91 | 4.71 | 5.97 | 5.99 | 5.50 | 53.49 | Inch |
| | | | | 10.7 | 7.3 | 5.8 | 5.6 | 6.0 | 5.8 | 8.1 | 9.2 | 8.8 | 11.2 | 11.2 | 10.3 | 100.0 | % |
| " | Llandovery, Grammar School | 220 | SN(22)765347 | 5.85 | 4.17 | 3.25 | 3.17 | 3.29 | 3.20 | 4.08 | 4.57 | 4.29 | 5.85 | 5.98 | 5.63 | 53.33 | Inch |
| | | | | 11.0 | 7.8 | 6.1 | 5.9 | 6.2 | 6.0 | 7.6 | 8.6 | 8.0 | 11.0 | 11.2 | 10.6 | 100.0 | % |
| " | Nant Cooh | 1172 | SN(22)803233 | 10.20 | 6.48 | 5.61 | 4.91 | 5.04 | 4.43 | 6.04 | 6.54 | 6.26 | 8.73 | 8.88 | 9.55 | 82.67 | Inch |
| | | | | 12.3 | 7.8 | 6.8 | 5.9 | 6.1 | 5.4 | 7.3 | 7.9 | 7.6 | 10.6 | 10.7 | 11.6 | 100.0 | % |

TABLE I Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas (continued)

S.W. Wales River Board (continued)

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carmarthenshire | Abergorlech | 245 | SN(22)585336 | 7.01 | 4.71 | 3.90 | 3.52 | 3.61 | 3.28 | 4.75 | 5.18 | 4.78 | 6.65 | 6.66 | 6.86 | 60.91 | Inch |
| | | | | 11.5 | 7.7 | 6.4 | 5.8 | 5.9 | 5.4 | 7.8 | 8.5 | 7.9 | 10.9 | 10.9 | 11.3 | 100.0 | % |
| " | Brechfa | 290 | SN(22)523299 | 7.53 | 4.96 | 4.26 | 3.82 | 3.86 | 3.66 | 5.26 | 5.64 | 5.33 | 7.36 | 7.29 | 7.41 | 66.38 | Inch |
| | | | | 11.3 | 7.5 | 6.4 | 5.8 | 5.8 | 5.5 | 7.9 | 8.5 | 8.0 | 11.1 | 11.0 | 11.2 | 100.0 | % |
| Pembrokeshire | Stackpole Court | 60 | SR(11)972960 | 4.93 | 3.15 | 2.56 | 2.24 | 2.44 | 2.10 | 3.31 | 3.47 | 3.44 | 4.63 | 4.92 | 4.71 | 41.90 | Inch |
| | | | | 11.8 | 7.5 | 6.1 | 5.4 | 5.8 | 5.0 | 7.9 | 8.3 | 8.2 | 11.1 | 11.7 | 11.2 | 100.0 | % |
| " | Maenclochog | 740 | SN(22)069300 | 7.07 | 4.75 | 3.93 | 3.67 | 3.53 | 3.45 | 5.14 | 5.06 | 5.36 | 7.11 | 7.01 | 6.93 | 63.01 | Inch |
| | | | | 11.2 | 7.6 | 6.2 | 5.8 | 5.6 | 5.5 | 8.2 | 8.0 | 8.5 | 11.3 | 11.1 | 11.0 | 100.0 | % |
| " | Trecwn House | 391 | SM(12)975325 | 5.84 | 3.94 | 3.25 | 3.07 | 2.97 | 2.89 | 4.33 | 4.22 | 4.44 | 5.93 | 5.81 | 5.87 | 52.56 | Inch |
| | | | | 11.1 | 7.5 | 6.2 | 5.8 | 5.7 | 5.5 | 8.2 | 8.0 | 8.4 | 11.3 | 11.1 | 11.2 | 100.0 | % |
| " | Goodwich, Trenewydd | 300 | SM(12)913396 | 4.51 | 2.94 | 2.54 | 2.25 | 2.30 | 2.06 | 3.12 | 3.24 | 3.23 | 4.39 | 4.52 | 4.37 | 39.47 | Inch |
| | | | | 11.4 | 7.5 | 6.4 | 5.7 | 5.8 | 5.2 | 7.9 | 8.2 | 8.2 | 11.1 | 11.5 | 11.1 | 100.0 | % |
| Cardiganshire | Cardigan | 40 | SN(22)190459 | 4.69 | 3.12 | 2.77 | 2.41 | 2.42 | 2.08 | 3.18 | 3.37 | 3.34 | 4.80 | 4.82 | 4.53 | 41.53 | Inch |
| | | | | 11.3 | 7.5 | 6.7 | 5.8 | 5.8 | 5.0 | 7.7 | 8.1 | 8.0 | 11.6 | 11.6 | 10.9 | 100.0 | % |
| Monmouthshire † | Abergavenny, Larchfield | 240 | SO(32)305143 | 4.56 | 3.03 | 2.70 | 2.54 | 2.63 | 1.90 | 2.70 | 3.00 | 2.79 | 3.99 | 4.42 | 4.33 | 38.59 | Inch |
| | | | | 11.8 | 7.9 | 7.0 | 6.6 | 6.8 | 4.9 | 7.0 | 7.8 | 7.2 | 10.3 | 11.5 | 11.2 | 100.0 | % |
| Glamorgan † | Penmaen, Cefn Mor | 300 | SS(21)530887 | 4.68 | 3.15 | 2.60 | 2.49 | 2.68 | 2.35 | 3.58 | 3.90 | 3.92 | 4.79 | 4.89 | 4.50 | 43.53 | Inch |
| | | | | 10.8 | 7.2 | 6.0 | 5.7 | 6.2 | 5.4 | 8.2 | 9.0 | 9.0 | 11.0 | 11.2 | 10.3 | 100.0 | % |
| Carmarthenshire† | Carmarthen, The Friary | 62 | SN(22)413202 | 5.78 | 3.76 | 3.28 | 2.96 | 3.16 | 2.87 | 4.13 | 4.55 | 4.22 | 5.78 | 6.02 | 5.84 | 52.35 | Inch |
| | | | | 11.0 | 7.2 | 6.3 | 5.7 | 6.0 | 5.5 | 7.9 | 8.7 | 8.1 | 11.0 | 11.5 | 11.1 | 100.0 | % |

† Stations now terminated.



G.02885/CJH/7/63/100.

TABLE I Monthly and Annual Averages of Rainfall, 1916-1950, (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas (continued)

S W. Wales (continued)

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr. | May | Jun | Jly | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carmarthenshire † | Llandilo, Dynevor Castle | 202 | SN(22)614224 | 5.92<br>11.1 | 3.92<br>7.3 | 3.39<br>6.4 | 3.05<br>5.7 | 3.36<br>6.3 | 2.91<br>5.5 | 4.08<br>7.6 | 4.50<br>8.4 | 4.23<br>7.9 | 6.11<br>11.5 | 5.96<br>11.2 | 5.94<br>11.1 | 53.37<br>100.0 | Inch<br>% |
| " † | Llanddeusant, Pontcrynfe | 323 | SN(22)730242 | 6.84<br>11.7 | 4.60<br>7.9 | 3.73<br>6.4 | 3.40<br>5.8 | 3.55<br>6.1 | 3.15<br>5.4 | 4.36<br>7.4 | 4.87<br>8.3 | 4.46<br>7.6 | 6.35<br>10.8 | 6.56<br>11.2 | 6.66<br>11.4 | 58.53<br>100.0 | Inch<br>% |
| Pembrokeshire † | Tenby, The Priory | 64 | SN(22)135004 | 4.86<br>11.3 | 3.25<br>7.6 | 2.72<br>6.4 | 2.43<br>5.7 | 2.57<br>6.0 | 2.12<br>4.9 | 3.38<br>7.9 | 3.55<br>8.3 | 3.61<br>8.4 | 4.68<br>10.9 | 4.89<br>11.4 | 4.78<br>11.2 | 42.84<br>100.0 | Inch<br>% |
| " † | St. Ann's Head, Coastguard St. | 142 | SM(12)807032 | 4.20<br>11.7 | 2.73<br>7.6 | 2.30<br>6.4 | 1.78<br>4.9 | 2.17<br>6.0 | 1.89<br>5.3 | 2.75<br>7.6 | 2.94<br>8.2 | 2.98<br>8.3 | 4.01<br>11.1 | 4.30<br>12.0 | 3.94<br>10.9 | 35.99<br>100.0 | Inch<br>% |

† Stations now terminated.

G.02885/CJH/7/63/100.

TABLE II Estimated Annual Averages of Rainfall (in inches), 1916-1950 for short-period stations. (Wye, Usk, Glamorgan and S.W. Wales River Board Areas).

| County | Station | Annual Average in. | Alt. Ft. | N.G.R. |
|---|---|---|---|---|
| | Wye River Board. | | | |
| Montgomeryshire | Manod | 86.55 | 1050 | SN(22)840827 |
| " | Dernol | 56.49 | 870 | SN(22)914747 |
| Radnorshire | St. Harmon | 47.07 | 918 | SN(22)990726 |
| " | Rhayader | 49.06 | 700 | SN(22)972680 |
| Montgomeryshire | Glan Fedwen | 72.82 | 1375 | SN(22)871759 |
| " | Bod-talog | 71.67 | 1250 | SN(22)868749 |
| Cardiganshire | Abergwngu | 70.90 | 1150 | SN(22)870734 |
| Radnorshire | Calettwr | 74.29 | 1490 | SN(22)875701 |
| " | Abercaethon | 70.53 | 1180 | SN(22)870690 |
| " | Tynant | 69.17 | 1020 | SN(22)899673 |
| " | Pen-y-gareg | 59.13 | 1530 | SN(22)925681 |
| " | Ty'n-y-llidiart | 66.46 | 1006 | SN(22)907659 |
| " | Nantgwllt | 63.02 | 840 | SN(22)909639 |
| " | Claerwen | 70.19 | 1250 | SN(22)820673 |
| Cardiganshire | Claerddu | 74.38 | 1425 | SN(22)792686 |
| " | Bwlchyrhendre | 71.15 | 1585 | SN(22)807664 |
| Radnorshire | Cerigllwydion | 77.14 | 1710 | SN(22)843692 |
| " | Bryn Hir | 77.52 | 1470 | SN(22)843681 |
| Brecknockshire | Arban | 79.32 | 1500 | SN(22)830629 |
| " | Esgair Garthen | 78.09 | 1590 | SN(22)842643 |
| Radnorshire | Ciloerwynt | 66.80 | 1045 | SN(22)882629 |
| Brecknockshire | Llyn Carw | 84.08 | 1775 | SN(22)851614 |
| " | Esgair Ceiliog | 82.90 | 1560 | SN(22)898601 |
| Radnorshire | Tyrmynydd | 62.80 | 832 | SN(22)914625 |
| Brecknockshire | Tyn-y-pant | 65.33 | 1320 | SN(22)926626 |
| " | Elan Village | 57.29 | 700 | SN(22)931649 |
| " | Llanfihangel (Llwyncynar) | 52.39 | 745 | SN(22)987568 |
| Radnorshire | Pen Ithon | 42.45 | 1200 | SO(32)073813 |
| " | Llanbadarn-fynydd | 44.43 | 974 | SO(32)097777 |
| " | Llanddewi-Ystradenny | 38.54 | 767 | SO(32)107685 |
| " | Llandrindod Wells | 40.63 | 772 | SO(32)061605 |
| Brecknockshire | Abernant | 58.51 | 632 | SN(22)887464 |
| " | Llwyn Madoc | 62.56 | 763 | SN(22)902525 |
| " | Garth | 51.70 | 541 | SN(22)954498 |
| Radnorshire | Builth Wells | 42.15 | 750 | SO(32)039530 |
| Brecknockshire | Court-Gwenddwr | 43.82 | 407 | SO(32)072456 |
| Radnorshire | Llanbwchllyn, Upper | 43.38 | 1400 | SO(32)114475 |
| " | Llanstephan House | 41.51 | 440 | SO(32)120420 |
| Brecknockshire | Cathedine | 38.67 | 650 | SO(32)145239 |
| " | Llanfillo | 35.83 | 700 | SO(32)121324 |
| " | Felin-fach | 36.54 | 546 | SO(32)088333 |
| " | Talgarth | 36.42 | 500 | SO(32)136354 |
| " | Glasbury | 35.93 | 276 | SO(32)181393 |
| Herefordshire | Clifford | 34.28 | 480 | SO(32)268445 |
| " | Tillington | 26.09 | 270 | SO(32)467448 |
| " | Burghill | 25.73 | 270 | SO(32)482433 |
| Radnorshire | Llangunllo | 43.08 | 776 | SO(32)211712 |
| " | Cascob | 46.62 | 1000 | SO(32)228658 |
| Herefordshire | Middle Moor | 33.43 | 470 | SO(32)326645 |
| Radnorshire | Evancoyd | 37.34 | 744 | SO(32)260630 |
| " | Newchurch | 38.55 | 801 | SO(32)217508 |
| Herefordshire | Lyonshall, The Croft | 31.92 | 478 | SO(32)335558 |
| " | Lyonshall | 32.76 | 510 | SO(32)339576 |

TABLE II Estimated Annual Averages of Rainfall (in inches) 1916-1950 for short-period stations. (Wye, Usk, Glamorgan and S.W. Wales River Board Areas). (continued)

| County | Station | Annual Average in. | Alt. Ft. | N.G.R. |
|---|---|---|---|---|
| | Wye River Board (continued) | | | |
| Herefordshire | Garnstone | 29.17 | 442 | SO(32)401501 |
| " | Monkland | 26.99 | 290 | SO(32)449573 |
| " | Hope under Dinmore | 26.75 | 246 | SO(32)513538 |
| " | Down House | 27.88 | 485 | SO(32)669545 |
| " | Perrystone Court | 29.33 | 520 | SO(32)625295 |
| " | Redding's Lodge | 33.97 | 650 | SO(32)547135 |
| " | Llanrosser | 42.35 | 1125 | SO(32)287380 |
| Monmouthshire | Tre-wyn | 40.87 | 440 | SO(32)329228 |
| Herefordshire | Kentchurch Court | 32.50 | 236 | SO(32)423258 |
| Monmouthshire | Monmouth, Cornwall House | 31.07 | 52 | SO(32)507126 |
| " | Llantilio Crossenny | 35.95 | 530 | SO(32)393172 |
| Gloucestershire | Redbrook P. Station | 36.93 | 220 | SO(32)539108 |
| Monmouthshire | Chepstow, Bethdour | 37.38 | 310 | ST(31)527936 |
| " | Shirenewton Filters | 40.68 | 275 | ST(31)484944 |
| " | Sudbrook | 32.89 | 51 | ST(31)508874 |
| | Usk River Board | | | |
| Carmarthenshire | Upper Usk 6. | 77.74 | 1290 | SN(22)812249 |
| " | Upper Usk 5. | 68.53 | 1090 | SN(22)815264 |
| " | Upper Usk 3. | 55.48 | 1340 | SN(22)799291 |
| " | Upper Usk 1. | 56.60 | 1020 | SN(22)829291 |
| " | Upper Usk 2. | 55.59 | 1370 | SN(22)808299 |
| Brecknockshire | Blaenau-isaf | 65.69 | 940 | SN(22)845258 |
| " | Taibull | 53.55 | 660 | SN(22)996261 |
| " | Brecon Waterworks | 45.19 | 550 | SO(32)037276 |
| " | Llanfrynach | 48.86 | 450 | SO(32)076258 |
| " | Blaen-caer-fanell | 75.27 | 1584 | SO(32)058188 |
| " | Darenfawr | 72.73 | 1172 | SO(32)073164 |
| " | Ynysposte | 70.05 | 741 | SO(32)072169 |
| " | Ffynonwen | 62.50 | 629 | SO(32)091179 |
| " | Talybont Filters | 59.28 | 554 | SO(32)105206 |
| " | Graig Pwllfa | 77.92 | 1796 | SO(32)071207 |
| " | Nant-y-Llaneroh | 70.74 | 1007 | SO(32)085212 |
| " | Tyle-Clydach | 60.49 | 709 | SO(32)099212 |
| " | Ashford | 48.10 | 390 | SO(32)123218 |
| " | Pennyarth | 44.37 | 350 | SO(32)187200 |
| " | Gilwen | 50.43 | 575 | SO(32)230138 |
| Monmouthshire | Ty-clyd | 45.96 | 272 | SO(32)269140 |
| " | Plas Derwen | 43.22 | 200 | SO(32)305131 |
| " | Usk | 39.67 | 70 | SO(32)368018 |
| " | Pant-yr-Eos-Res. | 50.39 | 435 | ST(31)254915 |
| Brecknockshire | Llangynidr No. 1. | 65.26 | 1413 | SO(32)155139 |
| " | Carno North | 64.08 | 1491 | SO(32)159135 |
| Monmouthshire | Blaen-y-Cwm Res. | 62.05 | 1340 | SO(32)170130 |
| " | Tredegar | 64.42 | 1028 | SO(32)141086 |
| " | Tredegar Laboratory | 62.27 | 950 | SO(32)144082 |
| " | Blackwood | 54.73 | 720 | ST(31)167973 |
| " | Nantydraenog Res. | 56.44 | 690 | ST(31)188934 |
| " | Rogerstone Golf Club | 47.50 | 304 | ST(31)268893 |
| " | Newport | 40.23 | 75 | ST(31)279849 |
| | Glamorgan River Board | | | |
| Monmouthshire | Rhymney Bridge Res. | 61.13 | 1150 | SO(32)105110 |
| Glamorgan | Llanishen Res. | 41.36 | 155 | ST(31)188815 |
| Brecknockshire | Blaen Taf Fawr | 87.61 | 1675 | SN(22)992207 |
| " | Storey Arms Field | 85.42 | 1430 | SN(22)986200 |

TABLE II Estimated Annual Averages of Rainfall (in inches)
1916-1950 for short-period stations.
(Wye, Usk, Glamorgan and S.W. Wales River Board Areas)
(continued)

| County | Station | Annual Average in. | Alt. Ft. | N.G.R. |
|---|---|---|---|---|
| | Glamorgan River Board (continued) | | | |
| Brecknockshire | Nant Penig | 94.73 | 2000 | SN(22)977191 |
| " | Llysiog | 70.08 | 1080 | SO(32)015149 |
| " | Garw-nant | 75.73 | 1100 | SN(22)994132 |
| " | Cefn Gougarn | 76.01 | 1362 | SN(22)986150 |
| " | Nant Ffynnon | 74.88 | 1352 | SN(22)983119 |
| " | Nant Gwinell | 69.36 | 1200 | SO(32)017132 |
| " | Garn Ddu | 72.28 | 1340 | SO(32)027129 |
| " | Cefn-Coed-y-Cymmer | 57.51 | 790 | SO(32)024086 |
| " | Neuadd Res. No. 11A | 84.89 | 1520 | SO(32)032185 |
| " | Pentwyn Res. No. 16 | 69.43 | 1090 | SO(32)049158 |
| Glamorgan | Merthyr Tydfil, Bronygarth | 55.26 | 770 | SO(32)047072 |
| " | Dowlais Filters | 60.42 | 1245 | SO(32)066096 |
| " | Dowlais | 56.69 | 1075 | SO(32)064087 |
| " | Dowlais, Gwernllwyn | 54.14 | 1071 | SO(32)071079 |
| " | Penybryn Filters | 57.19 | 937 | SO(32)054077 |
| Brecknockshire | Nanthir Res. | 61.21 | 860 | SN(22)989068 |
| Glamorgan | Darranlas Res. | 64.96 | 540 | ST(31)044991 |
| " | Llanfabon | 62.77 | 600 | ST(31)108934 |
| " | Lanwood Res. | 62.54 | 300 | ST(31)073908 |
| " | Pontypridd, Grammar School | 62.23 | 330 | ST(31)072906 |
| " | Treherbert Park | 92.33 | 600 | SS(21)939986 |
| " | Treorchy P. Station | 86.65 | 515 | SS(21)965965 |
| " | Lluest Wen Filters | 88.45 | 1200 | SN(22)956015 |
| " | Castell Res. No. 5. | 86.90 | 1060 | SN(22)964008 |
| " | Ferndale Park | 79.68 | 860 | SS(21)998967 |
| " | Porth Park | 73.26 | 400 | ST(31)023911 |
| " | Ty-Gwyn Res. | 61.66 | 725 | ST(31)063897 |
| " | Rhubina Res. | 50.14 | 336 | ST(31)150824 |
| " | St. Fagans Castle | 48.27 | 100 | ST(31)119773 |
| " | Cogan P. Station | 41.31 | 121 | ST(31)171729 |
| " | Penarth Cemetary | 36.49 | 99 | ST(31)180702 |
| " | Cowbridge, Pwllwy | 44.97 | 92 | SS(21)991766 |
| " | Tair Onen | 44.22 | 421 | ST(31)038742 |
| " | St. Athan | 37.33 | 50 | ST(31)026671 |
| " | Ogmore Vale | 86.51 | 854 | SS(21)934936 |
| " | Pontycymmer | 81.21 | 560 | SS(21)903916 |
| " | Maesteg Park | 72.18 | 550 | SS(21)847913 |
| " | Maesteg, Salisbury Road | 65.84 | 560 | SS(21)849910 |
| " | Bridgend, Erw Graig | 44.73 | 50 | SS(21)897786 |
| " | Tremains House | 44.89 | 140 | SS(21)923796 |
| " | Pentre Meyrick | 44.52 | 300 | SS(21)967757 |
| " | Merthyr Mawr, Schwyll | 41.53 | 45 | SS921)888770 |
| " | Porthcawl | 38.57 | 19 | SS(21)822771 |
| " | Margam | 39.81 | 24 | SS(21)802834 |
| " | Port Talbot | 42.85 | 24 | SS(21)789867 |
| " | Aberavon | 41.71 | 57 | SS(21)761902 |
| Brecknockshire | Ystradfellte | 80.71 | 1147 | SN(22)946171 |
| " | Twyn Gareg | 83.00 | 1501 | SN(22)984166 |
| Glamorgan | Llyn Fawr Res. No. 2. | 96.00 | 1220 | SN(22)918033 |
| " | Gnoll Res. | 52.69 | 204 | SS(21)764975 |
| " | Cimla Res. | 52.87 | 360 | SS(21)765963 |
| " | Neath | 49.48 | 145 | SS(21)718957 |

TABLE II Estimated Annual Averages of Rainfall (in inches)
1916-1950 for short-period stations
(wye, Usk, Glamorgan and S.W. Wales River Board Areas)
(continued)

| County | Station | Annual Average in. | Alt. Ft. | N.G.R. |
|---|---|---|---|---|
| | South West Wales River Board | | | |
| Brecknockshire | Nantyrwydd | 79.47 | 908 | SN(22)859181 |
| " | Ynyscedwyn | 68.37 | 235 | SN(22)778096 |
| Glamorgan | Clydach | 54.10 | 78 | SN(22)696014 |
| " | Wernfadog | 55.71 | 400 | SN(22)672001 |
| " | Swansea | 42.99 | 32 | SS(21)642923 |
| " | Upper Lliw Res. | 66.48 | 599 | SN(22)662058 |
| " | Lower Lliw Res. | 62.12 | 416 | SN(22)649034 |
| Carmarthenshire | Llannon Res. | 63.95 | 860 | SN(22)552102 |
| " | Upper Lliedi | 52.33 | 290 | SN(22)514043 |
| " | Llanelly Filters | 52.62 | 237 | SN(22)516024 |
| " | Pembrey | 42.15 | 19 | SN(22)415022 |
| " | Kidwelly P. Station | 50.23 | 60 | SN(22)420087 |
| " | Llyn-y-fan Fach | 108.27 | 1650 | SN(22)799219 |
| " | Waen Sychlwch | 106.18 | 1647 | SN(22)803222 |
| " | Troed-y-foel | 77.17 | 867 | SN(22)798238 |
| " | Golden Grove Farm | 54.23 | 100 | SN(22)597203 |
| " | Carmarthen, Fryn-hir | 53.58 | 155 | SN(22)486201 |
| " | Cwmtawel Res. | 67.62 | 300 | SN(22)386257 |
| " | Cwmoernant Res. | 52.00 | 135 | SN(22)419212 |
| " | Carmarthen, St. Davids Ave. | 52.98 | 100 | SN(22)405202 |
| " | Whitland | 51.52 | 60 | SN(22)201164 |
| Pembrokeshire | Blackpool | 49.64 | 210 | SN(22)058137 |
| " | Haverfordwest | 46.43 | 135 | SM(12)955153 |
| " | Milford Haven, Grammar Sch. | 38.17 | 170 | SM(12)908060 |
| Cardiganshire | Swyddffynnon | 51.58 | 588 | SN(22)696655 |
| " | Llandyssul, Sychpant Horeb | 49.15 | 341 | SN(22)406428 |
| " | Llandyssul, Joyous Gard | 51.89 | 390 | SN(22)414406 |
| " | Aberporth | 41.00 | 376 | SN(22)247516 |
| " | Bwlch-y-Graig | 49.22 | 790 | SN(22)580595 |
| " | Trawscoed | 47.24 | 200 | SN(22)674736 |
| " | Llygad Rheidol, Lower | 88.95 | 1660 | SN(22)791878 |
| " | Nant-y-moch | 76.19 | 1060 | SN(22)763871 |
| " | Aberystwyth, Plant Breeding St. | 41.61 | 452 | SN(22)605825 |
| " | Aberystwyth | 37.55 | 12 | SN(22)580815 |
| " | Gogerddan | 40.30 | 103 | SN(22)627836 |



G.02885/CJH/7/63/100.

TABLE III Monthly and Annual Averages of Rainfall, 1916-1950, estimated for short period stations (in inches)
Wye, Usk, Glamorgan and S.W. Wales River Board Areas

| County | Station | Jan | Feb | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radnorshire | Llandrindod Wells | 4.55 | 3.21 | 2.60 | 2.64 | 2.72 | 2.40 | 3.17 | 3.17 | 3.13 | 4.26 | 4.43 | 4.35 | 40.63 |
| Monmouthshire | Abergavenney, Plas Derwen | 5.10 | 3.41 | 3.03 | 2.85 | 2.94 | 2.12 | 3.03 | 3.37 | 3.11 | 4.45 | 4.97 | 4.84 | 43.22 |
| " | Usk | 4.48 | 2.94 | 2.66 | 2.54 | 2.62 | 2.06 | 3.25 | 3.45 | 3.25 | 4.13 | 4.16 | 4.13 | 39.67 |
| " | Newport | 4.47 | 2.90 | 2.54 | 2.49 | 2.66 | 2.21 | 3.34 | 3.74 | 3.38 | 4.22 | 4.14 | 4.14 | 40.23 |
| Glamorgan | Swansea | 4.73 | 3.22 | 2.49 | 2.41 | 2.62 | 2.41 | 3.48 | 3.87 | 3.83 | 4.69 | 4.73 | 4.51 | 42.99 |
| Pembrokeshire | Haverfordwest | 5.29 | 3.48 | 3.02 | 2.42 | 2.69 | 2.32 | 3.72 | 3.85 | 3.85 | 5.11 | 5.53 | 5.15 | 46.43 |
| Cardiganshire | Aberporth | 4.63 | 3.12 | 2.75 | 2.38 | 2.38 | 2.09 | 3.16 | 3.32 | 3.36 | 4.67 | 4.67 | 4.47 | 41.00 |
| " | Trawscoed | 4.87 | 3.59 | 2.84 | 2.83 | 2.69 | 2.88 | 4.16 | 4.20 | 4.06 | 5.24 | 5.01 | 4.87 | 47.24 |
| " | Aberystwyth P.B. Sta. | 3.70 | 2.91 | 3.16 | 2.33 | 2.37 | 2.75 | 3.46 | 4.29 | 3.20 | 4.66 | 4.20 | 4.58 | 41.61 |
| " | Gogerddan | 4.03 | 3.06 | 2.38 | 2.30 | 2.38 | 2.62 | 3.50 | 3.79 | 3.71 | 4.51 | 4.03 | 3.99 | 40.30 |

Table IVa 35-year daily totals of rainfall (in inches), 1916-1950

Cardiff, Penylan

| Day | Jan. | Feb. | Mar. | Apr. | May | June | Jly. | Aug | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.33 | 5.54 | 2.59 | 5.15 | 3.24 | 3.42 | 3.78 | 5.46 | 4.18 | 3.99 | 7.54 | 8.42 |
| 2 | 4.28 | 4.98 | 2.03 | 4.00 | 2.32 | 1.66 | 1.56 | 4.39 | 5.89 | 4.09 | 6.29 | 5.25 |
| 3 | 3.69 | 5.27 | 3.44 | 4.77 | 3.22 | 2.79 | 2.68 | 5.16 | 5.37 | 5.47 | 5.34 | 3.23 |
| 4 | 3.74 | 3.38 | 3.62 | 3.02 | 3.56 | 3.33 | 3.83 | 3.73 | 3.29 | 4.73 | 5.43 | 5.47 |
| 5 | 5.96 | 4.97 | 4.05 | 5.77 | 3.62 | 3.65 | 4.07 | 4.17 | 2.07 | 6.28 | 5.83 | 6.41 |
| 6 | 6.98 | 4.50 | 2.78 | 2.99 | 3.04 | 4.33 | 6.67 | 2.37 | 3.89 | 4.17 | 5.08 | 4.77 |
| 7 | 2.61 | 4.55 | 2.69 | 1.94 | 3.36 | 1.92 | 3.41 | 3.37 | 4.72 | 5.54 | 3.80 | 6.18 |
| 8 | 3.67 | 4.14 | 2.28 | 2.42 | 2.76 | 1.91 | 5.27 | 5.54 | 2.60 | 6.04 | 6.54 | 5.11 |
| 9 | 5.69 | 4.25 | 1.83 | 3.93 | 2.60 | 3.39 | 3.01 | 5.66 | 2.93 | 5.51 | 5.46 | 3.61 |
| 10 | 8.15 | 3.33 | 3.07 | 2.52 | 4.18 | 1.55 | 2.85 | 3.23 | 3.07 | 5.26 | 2.52 | 5.55 |
| 11 | 5.72 | 3.66 | 2.02 | 2.82 | 2.97 | 2.18 | 2.57 | 3.03 | 2.96 | 3.73 | 6.25 | 3.51 |
| 12 | 7.65 | 3.87 | 2.58 | 1.61 | 4.25 | 4.28 | 2.79 | 4.17 | 6.03 | 4.28 | 3.85 | 1.61 |
| 13 | 3.25 | 1.69 | 2.58 | 5.50 | .91 | 1.51 | 4.57 | 3.81 | 4.57 | 3.56 | 4.02 | 5.24 |
| 14 | 5.31 | 3.13 | 2.68 | 3.19 | 2.26 | 2.83 | 4.65 | 1.76 | 5.87 | 3.04 | 3.77 | 4.43 |
| 15 | 3.95 | 3.39 | 1.78 | 3.61 | 2.52 | 2.44 | 5.10 | 2.99 | 3.64 | 3.46 | 5.01 | 3.62 |
| 16 | 4.17 | 3.08 | 4.27 | 3.45 | 1.93 | 2.87 | 2.65 | 3.67 | 4.45 | 3.81 | 6.48 | 3.41 |
| 17 | 5.36 | 3.72 | 3.38 | 1.82 | 3.01 | 2.54 | 5.97 | 3.86 | 5.25 | 6.50 | 4.49 | 2.24 |
| 18 | 7.03 | 2.34 | 3.27 | 2.14 | 3.24 | 3.65 | 3.79 | 3.53 | 5.70 | 4.94 | 7.01 | 3.88 |
| 19 | 4.21 | 3.24 | 4.02 | 3.25 | 1.57 | 2.42 | 5.07 | 5.30 | 7.68 | 5.85 | 7.23 | 3.42 |
| 20 | 3.79 | 2.80 | 2.25 | 2.51 | 2.72 | 2.49 | 5.72 | 7.24 | 3.58 | 5.78 | 4.15 | 2.32 |
| 21 | 4.34 | 3.09 | 2.76 | 2.80 | 2.72 | 1.50 | 3.36 | 5.32 | 6.16 | 6.35 | 6.37 | 4.25 |
| 22 | 6.29 | 3.21 | 2.99 | 1.60 | 2.47 | 2.25 | 3.55 | 4.93 | 6.76 | 7.77 | 5.79 | 6.53 |
| 23 | 3.67 | 3.28 | 2.00 | 2.92 | 4.69 | 2.10 | 2.19 | 5.41 | 3.09 | 7.22 | 5.26 | 3.53 |
| 24 | 6.51 | 3.91 | 2.22 | 2.83 | 3.24 | 1.44 | 2.50 | 3.40 | 3.61 | 7.70 | 3.42 | 3.68 |
| 25 | 3.62 | 5.72 | 2.69 | 3.63 | 4.05 | 2.79 | 3.68 | 3.74 | 1.74 | 6.53 | 3.69 | 5.44 |
| 26 | 4.71 | 3.62 | 1.77 | 1.31 | 5.19 | 1.52 | 6.72 | 3.73 | 2.43 | 4.61 | 4.25 | 6.80 |
| 27 | 3.33 | 3.27 | 2.94 | 2.16 | 8.45 | 3.88 | 4.48 | 6.80 | 2.77 | 4.51 | 5.25 | 7.70 |
| 28 | 8.50 | 3.01 | 3.26 | 1.98 | 2.41 | 2.59 | 3.86 | 5.33 | 1.75 | 2.47 | 3.81 | 7.09 |
| 29 | 4.39 | 1.02 | 3.80 | 2.17 | 4.80 | 3.90 | 4.14 | 5.18 | 3.03 | 5.93 | 4.45 | 6.99 |
| 30 | 4.97 | - | 2.01 | 2.31 | 3.99 | 3.31 | 3.63 | 7.21 | 5.06 | 4.41 | 5.78 | 6.75 |
| 31 | 7.24 | - | 5.37 | - | 3.99 | - | 2.91 | 4.02 | - | 5.64 | - | 6.07 |



G.02885/CJH/7/63/100.

Table IVa 35-year daily totals of rainfall (in inches), 1916-1950

Treherbert

| Day | Jan. | Feb. | Mar. | Apr. | May | June | Jly. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.06 | 17.08 | 6.24 | 9.98 | 4.76 | 8.93 | 10.22 | 10.07 | 9.87 | 9.00 | 16.10 | 17.78 |
| 2 | 15.16 | 16.10 | 5.65 | 6.48 | 2.24 | 5.50 | 4.32 | 8.11 | 12.14 | 8.61 | 16.97 | 15.20 |
| 3 | 11.00 | 14.29 | 8.42 | 7.13 | 5.21 | 4.84 | 6.93 | 6.30 | 14.36 | 11.82 | 13.46 | 10.13 |
| 4 | 10.67 | 8.71 | 7.59 | 8.73 | 7.74 | 8.81 | 11.53 | 8.91 | 8.09 | 9.93 | 14.15 | 12.83 |
| 5 | 13.82 | 12.63 | 7.47 | 10.45 | 6.27 | 7.09 | 8.82 | 9.32 | 5.78 | 13.10 | 12.23 | 7.90 |
| 6 | 16.06 | 11.14 | 6.36 | 6.39 | 6.67 | 7.97 | 9.52 | 4.36 | 7.29 | 11.89 | 11.12 | 12.42 |
| 7 | 11.66 | 14.76 | 5.05 | 4.60 | 5.60 | 2.60 | 7.40 | 7.27 | 9.23 | 11.41 | 8.19 | 14.72 |
| 8 | 10.24 | 13.05 | 2.91 | 6.19 | 4.14 | 4.69 | 8.96 | 7.98 | 4.47 | 12.39 | 9.92 | 8.90 |
| 9 | 16.28 | 13.96 | 2.68 | 7.39 | 4.30 | 7.97 | 5.02 | 8.65 | 4.26 | 16.54 | 10.42 | 10.43 |
| 10 | 18.76 | 9.64 | 6.93 | 5.78 | 7.31 | 3.87 | 8.99 | 8.29 | 6.99 | 14.75 | 7.98 | 16.81 |
| 11 | 14.79 | 6.52 | 4.31 | 5.84 | 5.92 | 3.58 | 6.42 | 8.28 | 4.18 | 7.88 | 17.94 | 7.68 |
| 12 | 22.96 | 10.26 | 6.72 | 4.49 | 8.56 | 5.68 | 6.31 | 10.56 | 10.60 | 9.24 | 12.08 | 4.86 |
| 13 | 11.31 | 3.61 | 5.14 | 12.86 | 3.86 | 2.64 | 9.45 | 9.04 | 9.47 | 9.70 | 10.62 | 16.19 |
| 14 | 15.11 | 6.68 | 5.81 | 8.81 | 4.56 | 5.43 | 4.56 | 6.66 | 10.75 | 6.62 | 12.09 | 12.39 |
| 15 | 8.56 | 12.10 | 5.46 | 6.96 | 5.51 | 5.78 | 9.80 | 7.81 | 6.64 | 10.75 | 8.18 | 11.73 |
| 16 | 10.45 | 8.14 | 11.13 | 7.04 | 3.56 | 5.96 | 6.20 | 9.10 | 12.85 | 8.04 | 12.89 | 7.83 |
| 17 | 13.79 | 7.41 | 7.51 | 3.49 | 7.40 | 4.90 | 10.18 | 9.76 | 12.80 | 11.79 | 7.56 | 7.73 |
| 18 | 13.56 | 4.78 | 10.12 | 3.91 | 4.89 | 9.46 | 8.82 | 6.99 | 8.64 | 10.26 | 17.24 | 10.67 |
| 19 | 9.52 | 7.39 | 8.91 | 6.99 | 3.87 | 6.15 | 7.85 | 9.65 | 15.81 | 13.50 | 19.05 | 6.47 |
| 20 | 9.49 | 7.05 | 5.05 | 5.25 | 4.39 | 4.70 | 7.86 | 13.21 | 9.77 | 13.30 | 11.92 | 9.42 |
| 21 | 10.66 | 7.08 | 6.85 | 4.08 | 2.81 | 3.29 | 6.82 | 10.91 | 7.93 | 13.02 | 11.94 | 12.00 |
| 22 | 13.85 | 10.73 | 6.60 | 3.91 | 5.32 | 5.28 | 9.43 | 9.10 | 14.09 | 13.09 | 14.89 | 13.82 |
| 23 | 9.77 | 8.15 | 6.03 | 8.20 | 6.46 | 3.70 | 7.21 | 10.18 | 6.86 | 12.46 | 18.45 | 8.31 |
| 24 | 13.49 | 7.54 | 5.00 | 6.79 | 6.13 | 4.15 | 7.31 | 8.00 | 9.55 | 13.62 | 8.80 | 11.43 |
| 25 | 11.70 | 12.18 | 6.53 | 6.16 | 6.72 | 5.33 | 6.87 | 10.10 | 5.63 | 15.15 | 12.05 | 12.54 |
| 26 | 9.98 | 10.52 | 4.03 | 4.11 | 6.82 | 3.76 | 8.91 | 6.78 | 6.07 | 9.02 | 7.91 | 16.28 |
| 27 | 7.92 | 11.55 | 6.25 | 3.56 | 9.27 | 6.43 | 8.60 | 10.66 | 5.78 | 9.02 | 13.14 | 12.84 |
| 28 | 15.42 | 6.14 | 6.63 | 3.80 | 3.52 | 5.81 | 10.40 | 8.80 | 3.81 | 6.19 | 7.43 | 17.94 |
| 29 | 11.19 | 1.11 | 9.87 | 4.90 | 8.77 | 7.54 | 7.49 | 10.13 | 5.80 | 12.95 | 10.58 | 16.56 |
| 30 | 9.04 | - | 4.56 | 3.72 | 6.03 | 8.43 | 8.63 | 7.83 | 9.52 | 11.03 | 11.65 | 15.28 |
| 31 | 18.42 | - | 12.36 | - | 5.64 | - | 6.21 | 5.51 | - | 10.34 | - | 12.84 |

Table IVa 35-year daily totals of rainfall (in inches), 1916-1950

Beacons Res.

| Day | Jan. | Feb. | Mar. | Apr. | May | June | Jly. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16.39 | 15.93 | 5.77 | 9.12 | 5.83 | 8.00 | 8.28 | 10.12 | 8.84 | 6.54 | 13.92 | 14.68 |
| 2 | 10.47 | 10.92 | 4.75 | 6.03 | 3.26 | 5.22 | 5.15 | 5.85 | 8.50 | 6.30 | 17.47 | 13.70 |
| 3 | 9.79 | 12.59 | 6.30 | 7.22 | 3.59 | 4.25 | 7.56 | 5.19 | 12.14 | 10.60 | 12.91 | 8.54 |
| 4 | 8.20 | 7.99 | 6.40 | 8.43 | 6.24 | 7.98 | 9.67 | 6.58 | 7.17 | 9.36 | 10.59 | 12.07 |
| 5 | 12.16 | 10.10 | 8.39 | 7.67 | 7.22 | 7.38 | 7.32 | 7.93 | 4.71 | 15.63 | 10.66 | 6.98 |
| 6 | 13.16 | 8.54 | 6.43 | 6.19 | 4.99 | 6.45 | 8.95 | 5.35 | 6.71 | 10.75 | 9.84 | 10.73 |
| 7 | 11.04 | 11.28 | 5.39 | 4.82 | 4.72 | 4.62 | 4.19 | 7.14 | 8.08 | 9.45 | 6.99 | 10.98 |
| 8 | 8.89 | 10.52 | 3.31 | 6.20 | 3.73 | 5.01 | 7.06 | 8.77 | 5.31 | 11.55 | 9.98 | 8.72 |
| 9 | 13.73 | 13.85 | 2.70 | 7.49 | 3.69 | 7.74 | 5.31 | 8.76 | 3.48 | 15.62 | 10.36 | 8.41 |
| 10 | 17.22 | 7.41 | 5.16 | 4.90 | 5.85 | 4.35 | 7.07 | 8.79 | 4.93 | 11.69 | 7.60 | 13.70 |
| 11 | 12.77 | 6.09 | 3.58 | 4.29 | 5.35 | 3.34 | 6.09 | 6.42 | 3.57 | 6.83 | 15.83 | 6.64 |
| 12 | 16.35 | 9.67 | 7.03 | 4.17 | 7.36 | 4.89 | 8.82 | 11.18 | 11.61 | 7.78 | 11.13 | 4.31 |
| 13 | 10.15 | 2.79 | 4.66 | 10.88 | 2.94 | 3.47 | 6.66 | 7.10 | 8.13 | 8.99 | 8.37 | 11.99 |
| 14 | 12.70 | 6.01 | 4.48 | 7.72 | 5.08 | 5.17 | 4.27 | 4.31 | 12.34 | 6.83 | 11.62 | 11.86 |
| 15 | 7.33 | 10.06 | 5.16 | 6.10 | 5.86 | 5.49 | 10.45 | 7.83 | 6.43 | 6.59 | 7.44 | 9.78 |
| 16 | 10.18 | 6.90 | 9.12 | 7.84 | 3.85 | 6.15 | 5.78 | 6.97 | 11.68 | 5.93 | 11.18 | 7.20 |
| 17 | 12.58 | 5.96 | 7.43 | 4.15 | 6.14 | 6.15 | 10.78 | 8.47 | 10.10 | 11.33 | 7.07 | 7.36 |
| 18 | 11.65 | 4.42 | 9.46 | 4.98 | 4.10 | 8.05 | 7.35 | 7.43 | 10.51 | 9.07 | 14.46 | 9.58 |
| 19 | 8.65 | 6.68 | 7.96 | 5.87 | 4.92 | 6.39 | 6.89 | 6.92 | 11.59 | 10.09 | 16.04 | 5.61 |
| 20 | 9.27 | 6.23 | 4.88 | 5.41 | 4.63 | 4.41 | 6.98 | 9.81 | 10.77 | 12.06 | 11.84 | 6.48 |
| 21 | 11.26 | 6.65 | 5.42 | 4.32 | 2.88 | 3.92 | 6.55 | 11.42 | 8.62 | 11.67 | 11.14 | 8.36 |
| 22 | 12.01 | 9.87 | 6.71 | 3.25 | 5.57 | 3.63 | 8.72 | 10.68 | 10.71 | 11.19 | 11.61 | 12.00 |
| 23 | 8.86 | 5.35 | 5.69 | 6.80 | 6.32 | 3.54 | 7.49 | 8.82 | 6.09 | 11.83 | 13.91 | 7.29 |
| 24 | 10.98 | 6.04 | 3.90 | 5.93 | 5.38 | 3.71 | 5.05 | 7.85 | 7.78 | 13.18 | 7.49 | 10.91 |
| 25 | 9.02 | 8.49 | 4.24 | 6.34 | 5.98 | 4.97 | 6.61 | 6.31 | 7.16 | 15.74 | 10.05 | 9.55 |
| 26 | 8.59 | 9.78 | 3.83 | 3.86 | 7.75 | 4.45 | 9.21 | 7.00 | 4.83 | 8.79 | 8.39 | 14.73 |
| 27 | 7.25 | 10.60 | 6.16 | 4.48 | 10.18 | 6.57 | 8.90 | 10.25 | 6.17 | 9.54 | 10.79 | 11.74 |
| 28 | 12.60 | 6.63 | 5.42 | 4.60 | 3.76 | 6.60 | 8.67 | 8.53 | 4.22 | 4.97 | 6.47 | 15.42 |
| 29 | 9.49 | 1.44 | 8.06 | 5.19 | 7.29 | 8.34 | 7.66 | 9.20 | 4.69 | 11.92 | 8.14 | 14.02 |
| 30 | 8.00 | - | 4.99 | 4.81 | 4.62 | 7.42 | 8.64 | 4.13 | 8.03 | 9.60 | 9.81 | 14.09 |
| 31 | 15.94 | - | 9.66 | - | 7.12 | - | 5.71 | 5.31 | - | 10.46 | - | 11.23 |

Table IVa 35-year daily totals of rainfall (in inches), 1916-1950

Pontcrynfe

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10.83 | 9.77 | 4.88 | 5.39 | 4.30 | 6.53 | 4.83 | 6.77 | 6.47 | 4.68 | 11.91 | 10.95 |
| 2 | 7.81 | 7.76 | 2.57 | 4.16 | 2.35 | 2.64 | 4.32 | 3.98 | 5.36 | 5.12 | 9.20 | 8.98 |
| 3 | 6.19 | 9.07 | 4.10 | 4.10 | 3.34 | 2.88 | 5.12 | 3.11 | 7.68 | 8.19 | 9.22 | 5.41 |
| 4 | 6.17 | 4.56 | 5.55 | 6.66 | 4.91 | 4.91 | 5.19 | 4.69 | 3.21 | 6.56 | 9.95 | 8.10 |
| 5 | 9.79 | 5.45 | 5.55 | 5.44 | 5.96 | 3.79 | 5.52 | 7.57 | 3.13 | 7.89 | 7.70 | 5.26 |
| 6 | 7.85 | 6.85 | 4.24 | 3.00 | 4.20 | 5.30 | 5.79 | 3.23 | 4.45 | 7.06 | 6.58 | 8.35 |
| 7 | 6.22 | 6.76 | 2.66 | 3.44 | 4.52 | 2.96 | 3.56 | 5.77 | 5.37 | 9.22 | 4.70 | 8.58 |
| 8 | 7.59 | 7.08 | 1.66 | 3.78 | 1.75 | 2.47 | 5.33 | 4.84 | 3.94 | 7.06 | 6.76 | 7.69 |
| 9 | 7.59 | 8.29 | 1.40 | 4.68 | 3.99 | 5.89 | 3.19 | 6.52 | 2.67 | 9.38 | 6.83 | 7.13 |
| 10 | 11.07 | 3.59 | 4.40 | 4.32 | 2.74 | 2.36 | 4.41 | 5.38 | 2.75 | 8.91 | 5.21 | 11.03 |
| 11 | 9.48 | 4.58 | 4.05 | 4.05 | 3.11 | 2.48 | 4.17 | 5.20 | 2.90 | 4.39 | 10.39 | 4.62 |
| 12 | 13.94 | 6.52 | 4.20 | 2.15 | 6.21 | 4.50 | 4.73 | 5.44 | 7.77 | 4.74 | 7.80 | 3.81 |
| 13 | 5.96 | 2.08 | 3.68 | 7.95 | 2.70 | 2.43 | 5.07 | 4.02 | 6.10 | 5.90 | 8.57 | 9.35 |
| 14 | 9.18 | 3.83 | 3.57 | 6.15 | 2.42 | 2.53 | 3.83 | 2.90 | 7.98 | 5.11 | 8.30 | 7.80 |
| 15 | 7.79 | 5.18 | 3.48 | 4.54 | 4.70 | 3.03 | 7.08 | 4.98 | 3.77 | 5.95 | 5.70 | 8.80 |
| 16 | 6.75 | 4.36 | 6.49 | 4.18 | 3.23 | 3.25 | 5.85 | 4.78 | 9.48 | 5.06 | 7.71 | 5.81 |
| 17 | 7.68 | 5.27 | 5.21 | 2.47 | 5.98 | 3.85 | 7.30 | 6.28 | 6.80 | 8.36 | 4.55 | 6.05 |
| 18 | 7.37 | 3.38 | 6.97 | 2.74 | 3.18 | 4.71 | 6.22 | 4.89 | 7.20 | 5.39 | 10.40 | 6.45 |
| 19 | 4.81 | 4.13 | 5.97 | 4.78 | 3.26 | 3.71 | 4.26 | 5.57 | 8.35 | 9.12 | 11.04 | 3.44 |
| 20 | 6.97 | 4.52 | 3.47 | 3.66 | 3.74 | 5.34 | 5.46 | 7.01 | 5.81 | 8.85 | 7.40 | 5.85 |
| 21 | 7.16 | 5.09 | 3.55 | 2.83 | 1.73 | 2.83 | 4.32 | 10.55 | 5.69 | 9.35 | 7.98 | 5.34 |
| 22 | 7.46 | 7.22 | 3.79 | 3.04 | 4.48 | 2.77 | 5.15 | 6.75 | 6.31 | 8.61 | 7.27 | 8.00 |
| 23 | 5.69 | 4.59 | 3.45 | 4.22 | 5.20 | 2.10 | 4.61 | 6.22 | 4.27 | 8.33 | 10.02 | 6.68 |
| 24 | 8.04 | 4.80 | 3.22 | 4.61 | 4.41 | 1.95 | 3.54 | 4.60 | 4.22 | 9.33 | 5.24 | 7.50 |
| 25 | 7.39 | 7.16 | 4.12 | 4.35 | 3.63 | 3.15 | 4.81 | 5.53 | 4.08 | 9.86 | 8.71 | 6.71 |
| 26 | 7.35 | 6.76 | 2.75 | 2.19 | 6.80 | 3.04 | 4.59 | 4.77 | 3.36 | 7.41 | 5.45 | 9.33 |
| 27 | 5.85 | 5.90 | 4.54 | 1.98 | 5.90 | 3.69 | 5.42 | 8.07 | 4.35 | 6.12 | 8.46 | 7.87 |
| 28 | 8.53 | 5.57 | 4.69 | 2.48 | 2.67 | 4.94 | 6.40 | 6.53 | 3.54 | 4.35 | 4.39 | 9.25 |
| 29 | 5.75 | 86 | 5.27 | 3.07 | 5.13 | 4.47 | 4.24 | 5.75 | 3.39 | 7.78 | 5.53 | 11.49 |
| 30 | 5.93 | - | 4.46 | 2.61 | 3.68 | 5.66 | 4.06 | 4.47 | 5.73 | 7.79 | 6.51 | 10.39 |
| 31 | 9.23 | - | 6.65 | - | 4.17 | - | 3.90 | 4.21 | - | 6.49 | - | 7.20 |

Table IVa 35-year daily totals of rainfall (in inches), 1916-1950

Newbridge

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.60 | 7.08 | 3.10 | 5.02 | 2.93 | 4.46 | 3.37 | 2.90 | 6.58 | 3.70 | 6.70 | 7.27 |
| 2 | 4.91 | 6.03 | 1.85 | 3.72 | 2.20 | 2.86 | 2.27 | 2.86 | 4.17 | 4.08 | 7.43 | 6.81 |
| 3 | 4.76 | 5.73 | 3.31 | 3.49 | 2.64 | 3.36 | 3.49 | 2.53 | 4.77 | 6.41 | 6.25 | 4.95 |
| 4 | 3.70 | 2.90 | 3.30 | 3.70 | 3.84 | 2.51 | 4.21 | 3.24 | 2.95 | 4.55 | 5.75 | 6.89 |
| 5 | 6.96 | 4.78 | 4.52 | 4.46 | 4.45 | 3.68 | 5.46 | 4.04 | 2.81 | 7.32 | 5.55 | 4.45 |
| 6 | 6.06 | 4.79 | 4.49 | 3.50 | 3.06 | 2.63 | 3.69 | 2.83 | 2.99 | 5.73 | 5.79 | 6.09 |
| 7 | 4.23 | 5.68 | 2.36 | 3.71 | 3.23 | 3.13 | 3.09 | 3.77 | 4.23 | 7.34 | 4.39 | 6.45 |
| 8 | 5.05 | 5.25 | 2.29 | 4.08 | 2.54 | 2.39 | 4.50 | 3.90 | 3.12 | 6.51 | 6.18 | 5.07 |
| 9 | 7.41 | 7.05 | 1.59 | 5.07 | 2.30 | 4.53 | 2.92 | 5.02 | 2.58 | 5.75 | 5.69 | 4.79 |
| 10 | 8.51 | 3.34 | 2.53 | 3.16 | 2.88 | 2.28 | 4.04 | 4.16 | 2.34 | 6.41 | 4.00 | 5.83 |
| 11 | 6.72 | 3.80 | 3.29 | 2.95 | 3.15 | 2.61 | 3.54 | 3.85 | 1.58 | 4.43 | 7.47 | 2.78 |
| 12 | 8.33 | 4.56 | 2.98 | 1.70 | 3.75 | 4.84 | 3.47 | 4.18 | 7.73 | 3.04 | 5.32 | 2.47 |
| 13 | 4.93 | 1.58 | 1.94 | 5.68 | 1.45 | 2.15 | 4.27 | 4.06 | 4.25 | 4.48 | 5.90 | 5.44 |
| 14 | 7.02 | 2.92 | 2.85 | 3.70 | 2.83 | 3.68 | 2.74 | 2.67 | 4.97 | 3.40 | 5.41 | 5.59 |
| 15 | 4.65 | 5.06 | 3.03 | 3.84 | 3.96 | 1.48 | 6.02 | 2.52 | 2.74 | 3.87 | 3.50 | 5.31 |
| 16 | 4.80 | 2.76 | 3.86 | 4.30 | 2.93 | 2.16 | 3.36 | 3.65 | 4.16 | 3.65 | 7.19 | 4.63 |
| 17 | 6.78 | 4.25 | 3.48 | 3.30 | 4.27 | 3.36 | 5.26 | 4.48 | 5.08 | 5.25 | 4.22 | 3.90 |
| 18 | 7.08 | 3.71 | 4.39 | 2.56 | 2.40 | 4.68 | 6.77 | 3.50 | 5.01 | 4.80 | 7.31 | 4.15 |
| 19 | 3.68 | 2.56 | 4.25 | 1.88 | 3.05 | 2.73 | 3.31 | 4.86 | 6.41 | 5.53 | 7.08 | 3.67 |
| 20 | 4.07 | 3.17 | 2.30 | 2.63 | 2.90 | 3.59 | 4.69 | 5.06 | 5.74 | 5.16 | 5.00 | 2.45 |
| 21 | 5.79 | 3.22 | 2.90 | 3.04 | 1.84 | 2.93 | 2.80 | 5.02 | 3.88 | 6.04 | 7.00 | 3.37 |
| 22 | 5.63 | 5.39 | 3.70 | 1.77 | 3.92 | 2.00 | 4.88 | 4.52 | 5.60 | 5.03 | 6.68 | 5.75 |
| 23 | 3.95 | 1.84 | 2.93 | 2.96 | 3.95 | 2.32 | 3.02 | 3.93 | 3.52 | 6.31 | 6.67 | 4.85 |
| 24 | 4.90 | 3.68 | 2.21 | 3.09 | 4.49 | 2.48 | 2.09 | 3.88 | 4.53 | 7.33 | 4.35 | 4.60 |
| 25 | 6.07 | 4.38 | 2.39 | 4.07 | 3.33 | 2.88 | 3.83 | 3.46 | 3.13 | 6.49 | 6.65 | 6.06 |
| 26 | 4.84 | 6.81 | 2.53 | 2.38 | 5.75 | 3.03 | 3.91 | 5.15 | 2.36 | 6.72 | 4.49 | 6.92 |
| 27 | 3.24 | 5.87 | 3.67 | 1.97 | 6.50 | 3.03 | 4.13 | 5.65 | 3.97 | 5.09 | 5.43 | 5.63 |
| 28 | 6.67 | 4.47 | 4.39 | 2.75 | 2.64 | 3.80 | 4.36 | 5.33 | 2.10 | 2.76 | 3.22 | 7.80 |
| 29 | 5.01 | .53 | 3.78 | 2.97 | 3.77 | 3.65 | 4.71 | 4.67 | 2.73 | 6.97 | 3.34 | 7.68 |
| 30 | 4.76 | - | 3.17 | 2.33 | 2.49 | 3.87 | 2.49 | 3.12 | 3.83 | 4.26 | 5.08 | 8.70 |
| 31 | 7.01 | - | 3.46 | - | 4.03 | - | 2.69 | 2.63 | - | 5.80 | - | 5.78 |



G.02885/CJH/7/63/100

Table IVb Rainfall totals in inches, divided by 35, thus giving 35-year means ranging from 'trace' to .70 in., for use with table IVa.

| Totals in inches x | 35 yr means $\bar{x}/_{35}$ | Totals in inches x | 35 yr means $\bar{x}/_{35}$ |
|---|---|---|---|
| – .17 | 'trace' | 12.43 – 12.77 | .36 |
| .18 – .52 | .01 | 12.78 – 13.12 | .37 |
| .53 – .87 | .02 | 13.13 – 13.47 | .38 |
| .88 – 1.22 | .03 | 13.48 – 13.82 | .39 |
| 1.23 – 1.57 | .04 | 13.83 – 14.17 | .40 |
| 1.58 – 1.92 | .05 | 14.18 – 14.52 | .41 |
| 1.93 – 2.27 | .06 | 14.53 – 14.87 | .42 |
| 2.28 – 2.62 | .07 | 14.88 – 15.22 | .43 |
| 2.63 – 2.97 | .08 | 15.23 – 15.57 | .44 |
| 2.98 – 3.32 | .09 | 15.58 – 15.92 | .45 |
| 3.33 – 3.67 | .10 | 15.93 – 16.27 | .46 |
| 3.68 – 4.02 | .11 | 16.28 – 16.62 | .47 |
| 4.03 – 4.37 | .12 | 16.63 – 16.97 | .48 |
| 4.38 – 4.72 | .13 | 16.98 – 17.32 | .49 |
| 4.73 – 5.07 | .14 | 17.33 – 17.67 | .50 |
| 5.08 – 5.42 | .15 | 17.68 – 18.02 | .51 |
| 5.43 – 5.77 | .16 | 18.03 – 18.37 | .52 |
| 5.78 – 6.12 | .17 | 18.38 – 18.72 | .53 |
| 6.13 – 6.47 | .18 | 18.73 – 19.07 | .54 |
| 6.48 – 6.82 | .19 | 19.08 – 19.42 | .55 |
| 6.83 – 7.17 | .20 | 19.43 – 19.77 | .56 |
| 7.18 – 7.52 | .21 | 19.78 – 20.12 | .57 |
| 7.53 – 7.87 | .22 | 20.13 – 20.47 | .58 |
| 7.88 – 8.22 | .23 | 20.48 – 20.82 | .59 |
| 8.23 – 8.57 | .24 | 20.83 – 21.17 | .60 |
| 8.58 – 8.92 | .25 | 21.18 – 21.52 | .61 |
| 8.93 – 9.27 | .26 | 21.53 – 21.87 | .62 |
| 9.28 – 9.62 | .27 | 21.88 – 22.22 | .63 |
| 9.63 – 9.97 | .28 | 22.23 – 22.57 | .64 |
| 9.98 – 10.32 | .29 | 22.58 – 22.92 | .65 |
| 10.33 – 10.67 | .30 | 22.93 – 23.27 | .66 |
| 10.68 – 11.02 | .31 | 23.28 – 23.62 | .67 |
| 11.03 – 11.37 | .32 | 23.63 – 23.97 | .68 |
| 11.38 – 11.72 | .33 | 23.98 – 24.32 | .69 |
| 11.73 – 12.07 | .34 | 24.33 – 24.67 | .70 |
| 12.08 – 12.42 | .35 | | |



G.12271/JB/2/63/75.

Table V Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Cardiff

| Daily totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV 4.10 | | | | | 1 | | | | | | | | 1 |
| 2.50 | | | | | 1 | | | | | | | | 1 |
| 2.40 | | | | | 1 | | | | | | 1 | | 2 |
| 2.30 | | | | | 1 | | | | 1 | 1 | 1 | | 4 |
| 2.20 | | | | | 1 | | | 1 | 1 | 1 | 1 | | 5 |
| 2.10 | | | | | 1 | | 1 | 1 | 1 | 2 | 1 | | 7 |
| 2.00 | 1 | | | | 1 | | 1 | 1 | 1 | 2 | 1 | | 8 |
| 1.90 | 1 | | | | 1 | | 1 | 2 | 1 | 2 | 1 | | 9 |
| 1.80 | 1 | | | | 1 | | 1 | 4 | 1 | 2 | 1 | | 11 |
| 1.70 | 3 | | | | 1 | | 1 | 4 | 2 | 2 | 2 | | 15 |
| 1.60 | 3 | | | | 1 | | 1 | 4 | 3 | 5 | 3 | 1 | 21 |
| 1.50 | 4 | | | | 1 | | 2 | 5 | 4 | 5 | 4 | 2 | 27 |
| 1.40 | 4 | | | | 3 | | 2 | 6 | 5 | 10 | 9 | 2 | 41 |
| 1.30 | 5 | 1 | | 1 | 5 | | 8 | 7 | 8 | 13 | 11 | 5 | 64 |
| 1.20 | 9 | 1 | 1 | 2 | 7 | 3 | 11 | 7 | 11 | 15 | 13 | 6 | 86 |
| 1.10 | 15 | 2 | 1 | 3 | 7 | 5 | 15 | 13 | 17 | 20 | 17 | 10 | 125 |
| 1.00 | 16 | 5 | 1 | 4 | 11 | 8 | 21 | 19 | 22 | 23 | 19 | 12 | 161 |
| 0.90 | 27 | 9 | 3 | 5 | 16 | 10 | 25 | 27 | 31 | 29 | 28 | 18 | 228 |
| 0.80 | 33 | 12 | 7 | 7 | 22 | 13 | 31 | 33 | 37 | 39 | 35 | 30 | 299 |
| 0.70 | 49 | 25 | 14 | 12 | 29 | 18 | 41 | 44 | 46 | 53 | 55 | 53 | 439 |
| 0.60 | 66 | 44 | 26 | 23 | 39 | 28 | 51 | 65 | 62 | 70 | 72 | 68 | 614 |
| 0.50 | 92 | 59 | 52 | 36 | 51 | 38 | 70 | 89 | 73 | 101 | 96 | 97 | 854 |
| 0.40 | 137 | 83 | 72 | 71 | 73 | 56 | 98 | 122 | 97 | 141 | 122 | 133 | 1205 |
| 0.30 | 193 | 129 | 108 | 107 | 106 | 91 | 127 | 158 | 140 | 188 | 181 | 192 | 1720 |
| 0.20 | 285 | 191 | 161 | 164 | 166 | 144 | 187 | 214 | 1 3 | 266 | 252 | 271 | 2494 |
| 0.10 | 408 | 297 | 254 | 270 | 273 | 223 | 304 | 330 | 287 | 369 | 370 | 376 | 3761 |
| IV 0.005 | 655 | 501 | 480 | 487 | 485 | 427 | 509 | 537 | 494 | 583 | 599 | 611 | 6368 |
| VI *0.004 | 430 | 488 | 605 | 563 | 600 | 623 | 576 | 548 | 556 | 502 | 451 | 474 | 6416 |
| Total No. of days | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

*Including rainless days.

G.02885/CJH/7/63/100.

Table V Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Treherbert

| Daily Totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 5.60 | | | | | | | | | | | 1 | | 1 |
| 5.30 | | | | | | | | | | | 2 | | 2 |
| 5.20 | | | | | | | | | | | 3 | | 3 |
| 4.60 | | | | | | | | | | | 4 | | 4 |
| 4.00 | | | | | | | | | | 1 | 6 | | 7 |
| 3.80 | | | | | | | | | 1 | 1 | 7 | | 9 |
| 3.70 | | | | | | | | | 1 | 2 | 8 | | 11 |
| 3.60 | | | | | | | 1 | | 1 | 2 | 9 | | 13 |
| 3.50 | | | | | | | 1 | | 1 | 2 | 10 | | 14 |
| 3.40 | 1 | | | | | | 1 | | 1 | 2 | 10 | | 15 |
| 3.30 | 3 | | | | | | 1 | 2 | 1 | 2 | 10 | 1 | 20 |
| 3.20 | 4 | 1 | | | | | 1 | 2 | 1 | 3 | 10 | 3 | 25 |
| 3.10 | 5 | 2 | | | | 1 | 1 | 2 | 1 | 4 | 10 | 3 | 29 |
| 3.00 | 7 | 3 | | | 1 | 1 | 1 | 2 | 1 | 5 | 11 | 7 | 39 |
| 2.90 | 7 | 5 | 1 | | 1 | 1 | 2 | 2 | 1 | 6 | 11 | 7 | 44 |
| 2.80 | 8 | 5 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 8 | 14 | 8 | 55 |
| 2.70 | 9 | 5 | 1 | 1 | 2 | 1 | 2 | 4 | 3 | 8 | 14 | 8 | 58 |
| 2.60 | 11 | 5 | 1 | 1 | 2 | 1 | 3 | 5 | 5 | 9 | 16 | 10 | 69 |
| 2.50 | 14 | 6 | 2 | 1 | 2 | 1 | 4 | 5 | 5 | 11 | 17 | 10 | 78 |
| 2.40 | 16 | 9 | 2 | 2 | 3 | 3 | 4 | 6 | 5 | 12 | 18 | 13 | 93 |
| 2.30 | 21 | 10 | 2 | 2 | 3 | 3 | 5 | 7 | 8 | 16 | 19 | 14 | 110 |
| 2.20 | 21 | 10 | 4 | 4 | 3 | 4 | 5 | 7 | 9 | 20 | 24 | 19 | 130 |
| 2.10 | 25 | 13 | 6 | 4 | 4 | 5 | 8 | 9 | 10 | 21 | 27 | 23 | 155 |
| 2.00 | 26 | 16 | 6 | 6 | 4 | 8 | 10 | 9 | 11 | 24 | 29 | 24 | 173 |
| 1.90 | 28 | 21 | 7 | 7 | 5 | 8 | 11 | 12 | 14 | 28 | 29 | 30 | 200 |
| 1.80 | 32 | 24 | 8 | 7 | 8 | 8 | 12 | 15 | 16 | 36 | 33 | 35 | 234 |
| 1.70 | 39 | 32 | 11 | 8 | 9 | 9 | 17 | 18 | 20 | 40 | 39 | 39 | 281 |
| 1.60 | 49 | 38 | 15 | 9 | 11 | 11 | 21 | 26 | 24 | 45 | 49 | 43 | 341 |
| 1.50 | 54 | 42 | 20 | 9 | 16 | 12 | 21 | 27 | 32 | 52 | 54 | 55 | 394 |
| 1.40 | 66 | 48 | 26 | 11 | 20 | 17 | 27 | 33 | 40 | 63 | 63 | 59 | 473 |
| 1.30 | 76 | 56 | 32 | 13 | 24 | 19 | 35 | 41 | 46 | 66 | 73 | 70 | 551 |
| 1.20 | 94 | 64 | 36 | 18 | 28 | 22 | 42 | 53 | 58 | 78 | 85 | 81 | 659 |
| 1.10 | 114 | 72 | 42 | 26 | 30 | 26 | 50 | 64 | 66 | 92 | 98 | 99 | 779 |
| 1.00 | 131 | 84 | 49 | 35 | 38 | 34 | 62 | 73 | 76 | 111 | 109 | 118 | 920 |
| 0.90 | 149 | 101 | 62 | 46 | 44 | 42 | 77 | 91 | 85 | 129 | 125 | 137 | 1088 |
| 0.80 | 177 | 125 | 82 | 70 | 56 | 60 | 100 | 110 | 102 | 157 | 152 | 163 | 1354 |
| 0.70 | 203 | 147 | 94 | 87 | 70 | 79 | 125 | 130 | 121 | 184 | 186 | 192 | 1618 |
| 0.60 | 242 | 169 | 116 | 105 | 88 | 98 | 143 | 169 | 154 | 211 | 214 | 229 | 1938 |
| 0.50 | 282 | 193 | 139 | 131 | 107 | 121 | 179 | 202 | 186 | 241 | 243 | 262 | 2286 |
| 0.40 | 340 | 221 | 167 | 153 | 150 | 149 | 213 | 232 | 225 | 279 | 274 | 318 | 2727 |
| 0.30 | 407 | 263 | 215 | 209 | 189 | 189 | 253 | 275 | 265 | 324 | 324 | 367 | 3280 |
| 0.20 | 478 | 337 | 279 | 278 | 249 | 233 | 326 | 336 | 329 | 404 | 391 | 433 | 4073 |
| 0.10 | 578 | 421 | 370 | 389 | 355 | 320 | 434 | 442 | 414 | 485 | 501 | 531 | 5240 |
| M 0.005 | 793 | 610 | 589 | 594 | 558 | 537 | 638 | 631 | 606 | 675 | 716 | 752 | 7699 |
| M *0.004 | 292 | 379 | 496 | 456 | 527 | 513 | 447 | 454 | 444 | 410 | 334 | 333 | 5085 |
| Total No. of days | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

* Including raileas days.

Table V Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Beacons Res.

| Daily totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV 4.90 | | | | | | | | | | | 1 | | 1 |
| 4.70 | | | | | | | | | | 1 | 1 | | 2 |
| 4.60 | | | | | | | | | | 1 | 2 | | 3 |
| 4.40 | | | | | | | | | | 1 | 3 | | 4 |
| 3.70 | | | | | | | | | 1 | 1 | 4 | | 6 |
| 3.40 | | | | 1 | | | | | 1 | 1 | 4 | | 7 |
| 3.30 | | | | 1 | | | | | 1 | 2 | 4 | | 8 |
| 3.10 | | | | 1 | | | | | 1 | 3 | 4 | | 9 |
| 3.00 | 2 | | | 1 | | | | | 2 | 3 | 6 | | 14 |
| 2.90 | 3 | | | 1 | | | | | 2 | 5 | 6 | 1 | 18 |
| 2.80 | 4 | | | 1 | | | | | 2 | 5 | 6 | 1 | 19 |
| 2.70 | 4 | | | 1 | | | | | 2 | 5 | 9 | 1 | 22 |
| 2.60 | 4 | | | 1 | | | | | 2 | 7 | 9 | 2 | 25 |
| 2.50 | 6 | 2 | 1 | 1 | | | 2 | | 2 | 7 | 10 | 4 | 35 |
| 2.40 | 7 | 2 | 1 | 1 | | | 2 | 1 | 2 | 8 | 11 | 5 | 40 |
| 2.30 | 8 | 3 | 1 | 2 | | | 3 | 1 | 2 | 9 | 12 | 6 | 47 |
| 2.20 | 9 | 5 | 1 | 2 | 1 | 1 | 3 | 3 | 2 | 10 | 14 | 8 | 59 |
| 2.10 | 11 | 6 | 1 | 2 | 2 | 2 | 4 | 5 | 4 | 15 | 17 | 9 | 78 |
| 2.00 | 15 | 9 | 2 | 2 | 2 | 4 | 4 | 5 | 7 | 17 | 18 | 11 | 96 |
| 1.90 | 17 | 10 | 3 | 2 | 4 | 6 | 4 | 6 | 12 | 18 | 18 | 11 | 111 |
| 1.80 | 18 | 11 | 3 | 4 | 5 | 6 | 7 | 10 | 16 | 22 | 23 | 14 | 139 |
| 1.70 | 22 | 16 | 3 | 6 | 5 | 7 | 9 | 15 | 17 | 25 | 27 | 21 | 173 |
| 1.60 | 25 | 20 | 3 | 6 | 7 | 9 | 13 | 18 | 17 | 26 | 29 | 22 | 195 |
| 1.50 | 32 | 25 | 8 | 6 | 8 | 9 | 17 | 19 | 25 | 34 | 40 | 31 | 254 |
| 1.40 | 39 | 32 | 12 | 7 | 9 | 10 | 23 | 23 | 30 | 41 | 45 | 34 | 305 |
| 1.30 | 54 | 40 | 15 | 11 | 12 | 14 | 26 | 28 | 33 | 52 | 55 | 43 | 383 |
| 1.20 | 64 | 46 | 18 | 15 | 19 | 20 | 33 | 40 | 37 | 60 | 63 | 55 | 470 |
| 1.10 | 76 | 56 | 22 | 17 | 23 | 30 | 46 | 49 | 45 | 76 | 76 | 68 | 584 |
| 1.00 | 90 | 62 | 35 | 25 | 31 | 34 | 56 | 60 | 50 | 86 | 89 | 84 | 702 |
| 0.90 | 109 | 75 | 47 | 36 | 37 | 44 | 64 | 71 | 63 | 107 | 103 | 101 | 857 |
| 0.80 | 137 | 83 | 67 | 50 | 50 | 51 | 79 | 87 | 84 | 129 | 127 | 125 | 1069 |
| 0.70 | 169 | 105 | 81 | 67 | 66 | 69 | 99 | 109 | 97 | 158 | 151 | 157 | 1328 |
| 0.60 | 208 | 128 | 97 | 84 | 82 | 95 | 119 | 133 | 125 | 186 | 186 | 194 | 1637 |
| 0.50 | 249 | 163 | 123 | 115 | 101 | 112 | 160 | 162 | 173 | 223 | 230 | 237 | 2048 |
| 0.40 | 306 | 204 | 155 | 152 | 132 | 146 | 202 | 204 | 206 | 270 | 272 | 288 | 2537 |
| 0.30 | 389 | 259 | 200 | 205 | 182 | 191 | 250 | 263 | 267 | 326 | 318 | 351 | 3201 |
| 0.20 | 475 | 324 | 283 | 292 | 259 | 246 | 326 | 349 | 320 | 386 | 386 | 439 | 4085 |
| 0.10 | 582 | 440 | 395 | 411 | 380 | 336 | 447 | 456 | 428 | 497 | 515 | 549 | 5436 |
| IV 0.005 | 797 | 628 | 588 | 623 | 584 | 550 | 666 | 671 | 635 | 690 | 719 | 781 | 7932 |
| VI *0.004 | 288 | 361 | 497 | 427 | 501 | 500 | 419 | 414 | 415 | 395 | 331 | 304 | 4852 |
| Total No. of days | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

G.02885/CJH/7/63/100.

Table V Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Pontcrynfe

| Daily totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV 3.90 | | | | | | | | | | | 1 | | 1 |
| 2.60 | | | | | | | | | | 1 | 1 | | 2 |
| 2.50 | | 1 | | | | | | | | 1 | 1 | | 3 |
| 2.40 | | 2 | | | | | 1 | | | 1 | 2 | 2 | 8 |
| 2.30 | | 2 | | | 1 | | 1 | | | 1 | 3 | 2 | 10 |
| 2.20 | | 2 | | | 2 | | 1 | 1 | | 1 | 5 | 2 | 14 |
| 2.10 | | 2 | | | 2 | | 1 | 1 | | 1 | 7 | 3 | 17 |
| 2.00 | 2 | 3 | | | 2 | | 1 | 1 | 1 | 2 | 7 | 3 | 22 |
| 1.90 | 4 | 3 | | | 2 | | 1 | 1 | 1 | 4 | 8 | 6 | 30 |
| 1.80 | 6 | 3 | | | 2 | 1 | 3 | 1 | 2 | 5 | 11 | 7 | 41 |
| 1.70 | 8 | 3 | 1 | | 2 | 1 | 5 | 1 | 2 | 5 | 12 | 10 | 50 |
| 1.60 | 10 | 4 | 2 | 1 | 3 | 1 | 5 | 2 | 3 | 5 | 13 | 13 | 62 |
| 1.50 | 15 | 6 | 4 | 1 | 4 | 1 | 6 | 7 | 5 | 9 | 17 | 14 | 89 |
| 1.40 | 19 | 8 | 5 | 3 | 7 | 3 | 9 | 11 | 9 | 15 | 19 | 15 | 123 |
| 1.30 | 24 | 11 | 7 | 4 | 9 | 3 | 9 | 14 | 9 | 19 | 26 | 20 | 155 |
| 1.20 | 27 | 15 | 10 | 6 | 10 | 5 | 10 | 19 | 13 | 28 | 32 | 25 | 200 |
| 1.10 | 33 | 23 | 12 | 8 | 11 | 8 | 16 | 21 | 19 | 38 | 41 | 33 | 263 |
| 1.00 | 45 | 33 | 16 | 14 | 16 | 13 | 19 | 30 | 24 | 44 | 54 | 42 | 350 |
| 0.90 | 58 | 38 | 23 | 16 | 25 | 21 | 28 | 40 | 30 | 61 | 67 | 54 | 461 |
| 0.80 | 76 | 44 | 35 | 20 | 32 | 24 | 34 | 47 | 42 | 75 | 82 | 81 | 592 |
| 0.70 | 97 | 65 | 47 | 30 | 38 | 31 | 48 | 68 | 54 | 96 | 96 | 107 | 777 |
| 0.60 | 131 | 89 | 62 | 46 | 48 | 42 | 75 | 84 | 78 | 131 | 125 | 135 | 1046 |
| 0.50 | 173 | 108 | 80 | 62 | 67 | 65 | 91 | 105 | 97 | 166 | 154 | 169 | 1337 |
| 0.40 | 214 | 134 | 100 | 95 | 95 | 90 | 133 | 141 | 133 | 210 | 201 | 196 | 1742 |
| 0.30 | 280 | 172 | 143 | 128 | 134 | 135 | 181 | 196 | 178 | 256 | 241 | 259 | 2303 |
| 0.20 | 357 | 245 | 212 | 190 | 197 | 186 | 241 | 272 | 241 | 327 | 321 | 344 | 3133 |
| 0.10 | 497 | 348 | 314 | 336 | 321 | 277 | 354 | 376 | 365 | 434 | 435 | 478 | 4535 |
| IV 0.005 | 775 | 572 | 559 | 578 | 554 | 521 | 610 | 617 | 605 | 676 | 711 | 749 | 7527 |
| VI *0.004 | 310 | 417 | 526 | 472 | 531 | 529 | 475 | 468 | 445 | 409 | 339 | 336 | 5257 |
| Total No. of days | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

G.02885/CJH/7/63/100.

Table V Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Newbridge

| Daily totals | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV | 3.50 | | | | | | | 1 | | | | | | 1 |
| | 2.50 | | | | | | | 1 | | | | | | 1 |
| | 2.40 | | | | | | | 1 | | | | | | 1 |
| | 2.30 | | | | | | | 1 | | | | 1 | | 2 |
| | 2.20 | | | | | 1 | | 1 | | | | 2 | | 4 |
| | 2.10 | | | | | 1 | | 1 | | | | 3 | | 5 |
| | 2.00 | | | | | 1 | | 1 | | | | 3 | | 5 |
| | 1.90 | 1 | | | | 2 | | 1 | | | 1 | 4 | | 9 |
| | 1.80 | 3 | 1 | | | 2 | | 1 | | | 2 | 5 | | 14 |
| | 1.70 | 3 | 1 | | | 3 | | 2 | 2 | | 2 | 5 | 1 | 19 |
| | 1.60 | 3 | 2 | | | 3 | | 3 | 2 | 2 | 2 | 5 | 1 | 23 |
| | 1.50 | 4 | 3 | | | 3 | | 3 | 2 | 3 | 2 | 6 | 1 | 27 |
| | 1.40 | 5 | 3 | 1 | | 3 | 1 | 3 | 3 | 3 | 4 | 7 | 2 | 35 |
| | 1.30 | 5 | 4 | 1 | | 3 | 1 | 3 | 4 | 4 | 4 | 8 | 2 | 39 |
| | 1.20 | 6 | 5 | 2 | | 4 | 1 | 4 | 4 | 5 | 9 | 11 | 4 | 55 |
| | 1.10 | 8 | 7 | 2 | 1 | 5 | 2 | 7 | 4 | 7 | 13 | 14 | 8 | 78 |
| | 1.00 | 15 | 9 | 3 | 3 | 5 | 4 | 10 | 5 | 8 | 22 | 18 | 11 | 113 |
| | 0.90 | 19 | 13 | 7 | 5 | 10 | 6 | 13 | 9 | 10 | 28 | 25 | 18 | 163 |
| | 0.80 | 37 | 23 | 9 | 12 | 14 | 11 | 22 | 12 | 20 | 40 | 34 | 27 | 261 |
| | 0.70 | 51 | 36 | 17 | 16 | 23 | 21 | 32 | 27 | 32 | 55 | 46 | 44 | 400 |
| | 0.60 | 72 | 53 | 22 | 25 | 37 | 28 | 46 | 41 | 46 | 71 | 70 | 66 | 577 |
| | 0.50 | 102 | 72 | 34 | 35 | 53 | 39 | 63 | 57 | 62 | 95 | 95 | 96 | 803 |
| | 0.40 | 142 | 100 | 57 | 67 | 70 | 68 | 90 | 94 | 90 | 130 | 143 | 144 | 1195 |
| | 0.30 | 208 | 139 | 111 | 100 | 112 | 111 | 131 | 136 | 132 | 194 | 206 | 197 | 1777 |
| | 0.20 | 307 | 199 | 176 | 167 | 161 | 171 | 199 | 215 | 200 | 285 | 295 | 296 | 2671 |
| | 0.10 | 454 | 334 | 302 | 323 | 288 | 266 | 313 | 339 | 325 | 410 | 416 | 445 | 4215 |
| IV | 0.005 | 768 | 576 | 566 | 570 | 545 | 492 | 582 | 603 | 596 | 659 | 694 | 725 | 7376 |
| VI | *0.004 | 317 | 413 | 519 | 480 | 540 | 558 | 503 | 482 | 454 | 426 | 356 | 360 | 5408 |
| Total No. of days | | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

*Including rainless days.

G.02885/CJH/7/63/100

TABLE VI. Maximum and Minimum Monthly and Annual Totals of Rainfall (in inches), 1916-1950, with supplementary list covering the extremes for the 50-year period, 1911-1950.

| | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cardiff | Max | 1928<br>9.07 | 1923<br>8.50 | 1947<br>7.57 | 1920<br>5.66 | 1931<br>8.04 | 1935<br>4.98 | 1937<br>8.41 | 1917<br>9.43 | 1918<br>10.49 | 1916<br>9.04 | 1929<br>11.14 | 1934<br>11.17 | 1927<br>51.17 |
| 1916-50 | Min | 1935<br>0.84 | 1932<br>0.03 | 1925<br>0.42 | 1938<br>0.17 | 1919<br>0.71 | 1921<br>0.05 | 1935<br>0.66 | 1940<br>0.20 | 1929<br>0.59 | 1931<br>1.04 | 1933<br>0.78 | 1926<br>0.27 | 1921<br>25.94 |
| Other Extremes 1911-60 | Max | | | | | | 1912<br>6.94 | | | | | | | 1960<br>55.29 |
| | Min | | | | | | | 1911<br>0.13 | | 1959<br>0.25 | | | | |
| Treherbert | Max | 1928<br>22.16 | 1923<br>20.75 | 1947<br>16.47 | 1920<br>14.00 | 1942<br>11.94 | 1948<br>10.58 | 1939<br>17.71 | 1917<br>17.69 | 1918<br>17.64 | 1916<br>19.80 | 1929<br>27.11 | 1929<br>24.05 | 1946<br>114.98 |
| 1916-50 | Min | 1935<br>2.66 | 1932<br>0.17 | 1944<br>0.82 | 1938<br>0.52 | 1928<br>0.67 | 1925<br>0.41 | 1919<br>1.60 | 1947<br>0.94 | 1941<br>0.66 | 1947<br>2.55 | 1942<br>1.54 | 1926<br>0.53 | 1917<br>72.24 |
| Other Extremes 1911-60 | Max | | | 1912<br>16.97 | 1913<br>15.27 | | 1954<br>10.63 | | | | 1954<br>20.64 | | 1911<br>24.23 | |
| | Min | | | | | | | 1911<br>0.56 | | | 1951<br>2.11 | | | |
| Beacons Res. | Max | 1948<br>19.40 | 1923<br>16.62 | 1947<br>13.84 | 1920<br>13.36 | 1942<br>9.50 | 1946<br>10.29 | 1939<br>16.13 | 1917<br>17.04 | 1946<br>13.94 | 1916<br>17.77 | 1929<br>20.59 | 1929<br>20.31 | 1946<br>105.24 |
| 1916-50 | Min | 1935<br>2.67 | 1921<br>0.24 | 1944<br>0.71 | 1938<br>0.37 | 1928<br>1.17 | 1925<br>0.02 | 1935<br>1.71 | 1947<br>0.79 | 1941<br>1.27 | 1946<br>1.67 | 1945<br>0.98 | 1926<br>1.01 | 1933<br>57.91 |
| Other Extremes 1911-60 | Max | | | | | | | | | 1958<br>14.21 | 1954<br>18.78 | 1960<br>20.68 | 1959<br>21.29 | 1960<br>110.51 |
| | Min | 1953<br>2.47 | | | | | | 1911<br>0.57 | | 1959<br>0.83 | | | | |

TABLE VI. Maximum and Minimum Monthly and Annual Totals of Rainfall (in inches), 1916, with supplementary list covering the extremes for the 50-year period, 1911-60.

| | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pontcrynfe* | Max | 1930<br>13.86 | 1925<br>11.03 | 1947<br>12.20 | 1920<br>9.23 | 1942<br>9.54 | 1928<br>7.08 | 1939<br>10.66 | 1917<br>11.43 | 1950<br>10.11 | 1916<br>12.64 | 1929<br>17.56 | 1929<br>16.92 | 1948<br>73.16 |
| 1916-50 | Min | 1935<br>1.55 | 1921<br>0.15 | 1944<br>0.54 | 1938<br>0.30 | 1928<br>0.48 | 1925<br>0.00 | 1934<br>0.85 | 1947<br>0.44 | 1941<br>0.59 | 1947<br>1.54 | 1945<br>0.94 | 1926<br>0.69 | 1933<br>41.90 |
| Other Extremes 1911-60 | Max | | 1915<br>11.66 | | | | | | | 1958<br>11.07 | | | | 1954<br>76.24 |
| | Min | | | | | | | | | 1959<br>0.54 | 1951<br>1.29 | | | 1911<br>32.87 |
| Newbridge | Max | 1948<br>11.42 | 1923<br>8.27 | 1947<br>7.62 | 1920<br>6.82 | 1931<br>5.80 | 1927<br>6.20 | 1939<br>8.02 | 1917<br>8.82 | 1918<br>8.77 | 1916<br>9.22 | 1940<br>11.26 | 1929<br>10.91 | 1946<br>53.94 |
| 1916-50 | Min | 1929<br>1.35 | 1932<br>0.12 | 1929<br>0.36 | 1938<br>0.21 | 1919<br>0.65 | 1925<br>0.44 | 1935<br>0.45 | 1940<br>0.39 | 1939<br>0.79 | 1947<br>0.78 | 1942<br>0.76 | 1933<br>1.22 | 1921<br>31.89 |
| Other Extremes 1911-60 | Max | | | 1912<br>7.70 | | | | | | | | | | 1912<br>54.59 |
| | Min | 1953<br>1.28 | | | 1957<br>0.18 | | | | 1959<br>0.36 | 1959<br>0.23 | | | | |

* Terminated March, 1960.

Table VII Maximum Daily Rainfall (in inches), 1916–50, with additional maxima for the 50-year period 1911–60.

| | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cardiff | 1916–50 Max | 1945<br>2.00 | 1925<br>1.30 | 1947<br>1.20 | 1935<br>1.31 | 1931<br>4.18 | 1925<br>1.28 | 1940<br>2.16 | 1929<br>2.23 | 1944<br>2.33 | 1929<br>2.32 | 1927<br>2.47 | 1922<br>1.60 |
| | 1911–60 Max | | | 1954<br>1.34 | 1913<br>1.62 | | 1955<br>1.68 | | | | | | 1960<br>2.27 |
| Treherbert | 1916–50 Max | 1937<br>3.41 | 1937<br>3.27 | 1947<br>2.93 | 1945<br>2.88 | 1949<br>3.02 | 1932<br>3.15 | 1939<br>3.68 | 1929<br>3.36 | 1944<br>3.85 | 1933<br>4.00 | 1946<br>5.66 | 1942<br>3.31 |
| | 1911–60 Max | 1957<br>3.95 | 1915<br>3.51 | | 1913<br>4.45 | | | | | | | | 1960<br>5.93 |
| Beacons Res. | 1916–50 Max | 1932<br>3.02 | 1928<br>2.58 | 1947<br>2.51 | 1945<br>3.45 | 1931<br>2.25 | 1939<br>2.28 | 1939<br>2.58 | 1929<br>2.42 | 1944<br>3.72 | 1941<br>4.76 | 1931<br>4.98 | 1942<br>2.97 |
| | 1911–60 Max | | | 1953<br>3.20 | | | | | 1954<br>3.12 | | | | |
| Pontcrynfe* | 1916–50 Max | 1932<br>2.06 | 1916<br>2.54 | 1919<br>1.78 | 1945<br>1.69 | 1943<br>2.37 | 1932<br>1.80 | 1926<br>2.43 | 1927<br>2.20 | 1944<br>2.01 | 1933<br>2.63 | 1931<br>3.98 | 1936<br>2.47 |
| | 1911–60 Max | | | 1953<br>1.93 | 1913<br>2.05 | 1954<br>2.43 | 1915<br>3.03 | | | | 1959<br>2.98 | | |
| Newbridge | 1916–50 Max | 1948<br>1.98 | 1946<br>1.80 | 1919<br>1.45 | 1945<br>1.11 | 1916<br>2.25 | 1935<br>1.45 | 1926<br>3.50 | 1926<br>1949<br>1.79 | 1948<br>1.68 | 1933<br>1.90 | 1931<br>2.35 | 1948<br>1.78 |
| | 1911–60 Max | | | 1955<br>1.93 | 1913<br>1960<br>1.18 | | 1953<br>1.54 | | 1911<br>2.40 | | | | 1960<br>2.72 |

* Data missing for 1960 which could surpass the maximum during the standard period (1916–50). i.e. in December

Appendix I

River Board Areas of South Wales, Glamorgan, Wye and Usk.

Intense falls of Rain in 2 hours or less, 1860-1960
Extracted from British Rainfall

(Arranged chronologically under county headings).

| Year | Class | Station | Riv., Div. | Date | Amt in. | D'r'n min. | Rate in/hr |
|---|---|---|---|---|---|---|---|
| Pembrokeshire | | | | | | | |
| 1882 | N | Solva | 3 | July 6 | .67 | 15 | 2.68 |
| 1902 | N | Pembroke Dock, County Sch. | 4 | Sep. 23 | 1.00 | 60 | 1.00 |
| 1906 | N | Haverfordwest, High St. | 4 | Aug. 2 | 1.37 | 90 | .91 |
| 1953 | R | Pembroke Dock | 4 | June 27 | 2.07 | 65 | 1.91 |
| Carmarthenshire | | | | | | | |
| 1899 | R | Llandovery, Town | 2 | Aug. 7 | 1.21 | 30 | 2.42 |
| " | R | Llandwrda, Dolaucothy | 2 | Aug. 7 | 2.08 | 90 | 1.39 |
| 1911 | R | Llandilo, Caeglas | 2 | May 13 | 1.96 | 120 | .98 |
| 1927 | N | Abergorlech | 2 | July 12 | .98 | 35 | 1.68 |
| 1935 | V.R | " | 2 | June 25 | 2.95 | 120 | 1.47 |
| 1944 | R | Carmarthen, St. David's Ave | 2 | Aug. 6 | 2.50 | 90 | 1.67 |
| 1957 | N | " " " " | 2 | July 20 | 1.45 | 60 | 1.45 |
| Cardiganshire | | | | | | | |
| 1878 | N | Llechryd, Castle Malgwyn | 3 | June 29 | 1.40 | 60 | 1.40 |
| 1920 | R | Lampeter, Falcondale | 3 | May 25 | 1.45 | 50 | 1.74 |
| 1935 | N | Llechryd, Castle Malgwyn | 3 | June 23 | .75 | 15 | 3.00 |
| 1937 | N | Cardigan, Plas Llangoedmore | 3 | Aug. 11 | 1.30 | 90 | .87 |
| 1946 | R | Llandussul, Sychpant Horeb | 3 | Sep. 20 | 2.34 | 120 | 1.17 |
| 1953 | N | Llandyssul, Joyous Gard | 3 | Sep. 15 | 1.24 | 100 | .74 |
| 1955 | N | " " " | 3 | Aug. 17 | .56 | 11 | 3.05 |
| 1957 | V.R | Nantcwnlle, Bwlchyllan | 2 | June 8 | 3.05 | 120 | 1.53 |
| 1957 | V.R | " " | 2 | Aug. 5 | 3.43 | 120 | 1.71 |
| 1958 | N | " " | 2 | July 14 | .65 | 15 | 2.60 |
| 1958 | R | " " | 2 | Sep. 14 | 2.16 | 100 | 1.30 |
| 1960 | | " Bwlchcraig | 2 | Aug. 27 | 1.49 | 120 | .75 |
| Glamorganshire | | | | | | | |
| 1878 | R | Cardiff | 6 | June 16 | 1.78 | 60 | 1.78 |
| 1878 | R | " Cemetery | 6 | Aug. 23 | 2.00 | 120 | 1.00 |
| 1880 | V.R | Cowbridge, Ash Hall | 5 | July 22 | 2.90 | 30 | 5.80 |
| 1886 | R | Swansea, Morriston | 3 | Sep. 4 | 1.93 | 120 | .97 |
| 1888 | N | Dowlais, Cwm Bargoed | 6 | June 25 | .66 | 15 | 2.64 |
| " | R | Ystalyfera, Tan-yr-Allt | 3 | July 5 | 1.63 | 40 | 2.45 |
| " | R | Dowlais, Cwm Pargoed | 6 | July 17 | 2.09 | 90 | 1.39 |
| " | N | Ystalyfera, Tan-yr-Allt | 3 | July 1 | 1.55 | 90 | 1.03 |
| 1890 | N | Gower, Pilton Green | 2 | May 25 | 1.20 | 90 | .80 |
| 1890 | N | Swansea | 3 | May 25 | 1.53 | 93 | .99 |
| 1897 | N | Dowlais, Gwernllwyn | 6 | June 5 | .81 | 30 | 1.62 |
| 1898 | R | Pontypridd, Maesderwyn | 6 | Nov. 2 | 2.24 | 120 | 1.12 |
| 1899 | V.R | Barry W.W, Biglis | 5 | July 23 | 2.50 | 70 | 2.14 |
| 1913 | N | Briton Ferry, Brynsiriol | 4 | Nov. 11 | .75 | 15 | 3.00 |
| 1915 | R | " " , Cefn Court | 4 | Aug. 2 | 1.25 | 20 | 3.75 |
| 1917 | N | Bridgend, Highmead | 5 | May 29 | 1.18 | 70 | 1.01 |
| 1930 | N | Port Talbot, Groeswen Ganol | 5 | Sep. 11 | 1.48 | 105 | .85 |
| 1935 | N | Heath, Cimla Res. | 4 | June 25 | 1.00 | 30 | 2.00 |
| " | N | " , Gnoll Res. | 4 | June 25 | 1.00 | 30 | 2.00 |
| 1936 | N | Barry, Porth-y-Castell | 5 | June 30 | .75 | 21 | 2.14 |
| 1938 | R | Maesteg, Salisbury Rd. | 5 | Oct. 12 | 1.57 | 51 | 1.85 |
| 1939 | N | Merthyr Tydfil, Hanover St. | 6 | July 21 | 1.48 | 95 | .93 |
| " | N | Llandaff, Pwllmelyn | 6 | July 21 | 1.57 | 105 | .90 |

| Year | Class | Station | Riv. Div. | Date | Amt. in. | D'r'n | Rate in/hr. |
|---|---|---|---|---|---|---|---|
| Glamorganshire (continued) | | | | | | | |
| 1944 | N | St. Athan | 5 | May 31 | 1.20 | 75 | .96 |
| 1949 | R | Dowlais | 6 | Aug. 25 | 1.57 | 30 | 3.14 |
| " | R | Ystrad Mynach, Park La. | 7 | July 16 | 2.57 | 120 | 1.29 |
| 1953 | R | Pontypridd, Boy's Grammar Sch. | 6 | June 26 | 1.20 | 30 | 2.40 |
| " | R | " , Coedpenmaen Road | 6 | June 26 | 1.20 | 30 | 2.40 |
| " | N | " , Treforest Sec. Sch. | 3 | June 26 | .96 | 30 | 1.92 |
| " | R | Ystalyfera, Wern Ho. | 3 | June 26 | 1.61 | 50 | 1.93 |
| " | N | Maesteg, Welfare Pk. | 5 | Aug. 19 | 1.21 | 90 | .81 |
| 1955 | V.R | Pontypridd, Coedpenmaen Rd. | 6 | June 6 | 2.92 | 40 | 4.38 |
| " | N | Merthyr Tydfil | 6 | June 6 | 1.50 | 96 | .94 |
| " | V.R | Neath, Gnoll Res. | 4 | July 18 | 3.32 | 120 | 1.66 |
| 1958 | N | Clydach | 3 | Aug. 19 | 1.56 | 20 | 4.68 |
| 1959 | R | Rhoose A/fd. | 5 | Aug. 10 | 1.53 | 60 | 1.53 |
| Radnorshire | | | | | | | |
| 1878 | N | Rhayader, Nantgwillt | 1 | Aug. 3 | .58 | 12 | 2.90 |
| 1886 | N | Glasbury, Woodlands | 1 | June 2 | 1.27 | 120 | .63 |
| 1900 | R | Llandrindod Wells | 1 | July 12 | 2.39 | 90 | 1.59 |
| 1939 | N | Lansaintfraed-in-Elvel | 1 | July 20 | .97 | 22 | 2.65 |
| 1949 | V.R | Prestiegne, Evancoyd | 1 | Sep. 22 | 2.75 | 80 | 2.06 |
| 1957 | N | Birmingham W.W., Ciloerwynt | 1 | Aug. 5 | 1.20 | 120 | .60 |
| Brecknockshire | | | | | | | |
| 1893 | N | Glasbury, Gwernfed Pk. | 8 | June 19 | 1.40 | 60 | 1.40 |
| 1896 | N | Builth, Abergwesyn Vic. | 8 | Sep. 9 | .93 | 28 | 1.99 |
| 1899 | N | Brecon, Llandefaelog-Fach | 7 | Sep. 5 | 1.50 | 75 | 1.20 |
| 1907 | N | Llangammaroh Wells | 8 | July 22 | 1.10 | 45 | 1.45 |
| 1932 | V.R | Glasbury, Gwernfed Pk. | 8 | Aug. 21 | 2.25 | 60 | 2.25 |
| 1934 | R | Llanafanfawr Sch. | 8 | Aug. 6 | 2.01 | 55 | 2.19 |
| 1936 | N | Crickhowell, Dan-y-parc | 7 | June 20 | .91 | 30 | 1.82 |
| 1941 | V.R | Cardiff W.W., Beacons Res. | 4 | Oct. 5 | 2.25 | 57 | 2.37 |
| 1941 | R | " " " " | 4 | Oct. 5 | 2.35 | 120 | 1.17 |
| 1946 | R | " " , Cantref Res. | 4 | June 23 | 2.21 | 115 | 1.15 |
| Monmouthshire | | | | | | | |
| 1865 | N | Abergavenney | 3 | Oct. 9 | .94 | 30 | 1.88 |
| 1888 | R | Chepstow, Dermel Hill | 3 | June 25 | 1.35 | 30 | 2.70 |
| 1893 | N | " , Shirenewton Hall | 3 | June 4 | .62 | 5 | 7.44 |
| 1899 | N | Abergavenney, Dyne Ho. | 3 | July 7 | 1.14 | 80 | .85 |
| 1910 | N | " | 3 | May 16 | .71 | 14 | 3.04 |
| 1915 | V.R | " , The Chain | 3 | July 4 | 2.20 | 30 | 4.40 |
| 1935 | V.R | Portskewett, Sudbrook | 3 | June 25 | 2.77 | 70 | 2.37 |
| " | N | Chepstow, Itton Court | 3 | Sep. 22 | 1.66 | 90 | 1.11 |
| 1936 | N | Blackwood | 2 | June 29 | 1.00 | 20 | 3.00 |
| 1937 | R | Newport W.W., Friar St. Yard | 3 | Aug. 12 | 1.71 | 75 | 1.37 |
| " | R | Abersychan, Glansychan | 3 | July 15 | 1.93 | 120 | .97 |
| 1939 | N | Tredegar Laboratory | 2 | July 19 | .98 | 35 | 1.68 |
| 1945 | V.R | Newport W.W., Friar St. Yard | 3 | Aug. 28 | 2.98 | 114 | 1.57 |
| 1949 | R | Tredegar, Poplar Rd. | 2 | Oct. 25 | 1.75 | 60 | 1.75 |
| 1959 | R | Brynderi, Llandilio Crosseny Sch. | 4 | June 25 | 1.87 | 120 | .93 |
| Gloucestershire | | | | | | | |
| 1923 | N | St. Briavels Ho. | 1 | July 31 | 1.00 | 60 | 1.00 |
| Herefordshire | | | | | | | |
| 1875 | N | Staunton-on-Wye | 1 | June 3 | 1.05 | 60 | 1.05 |
| " | R | Kington, Lynhales | 1 | Aug. 12 | 2.00 | 120 | 1.00 |
| 1878 | R | Hereford, Stretton | 1 | Sep. 6 | 1.84 | 60 | 1.84 |

| Year | Class | Station | Riv. Dir. | Date | Amt. in. | D'r'n | Rate in/hr. |
|---|---|---|---|---|---|---|---|
| Herefordshire (continued) | | | | | | | |
| 1880 | N | Ross, The Graig | 1 | July 10 | .67 | 15 | 2.68 |
| 1881 | N | " " " | 1 | Aug. 23 | 1.02 | 30 | 2.04 |
| " | N | " " " | 1 | " 23 | 1.42 | 90 | .95 |
| 1895 | N | Weobley, Dilwyn | 1 | June 26 | .86 | 20 | 2.58 |
| 1898 | N | Ross, The Graig | 1 | Aug. 21 | .90 | 40 | 1.35 |
| 1903 | N | " , Perrystone Court | 1 | May 5 | 1.12 | 45 | 1.49 |
| 1904 | N | Kington, Gravel Hill | 1 | July 25 | .83 | 27 | 1.84 |
| 1906 | N | Bromyard, Rowden Abbey | 1 | June 10 | .87 | 30 | 1.74 |
| 1907 | N | " , Buckenhill | 1 | July 21 | 1.10 | 60 | 1.10 |
| 1910 | N | Kentchurch Rec. | 1 | May 16 | .80 | 25 | 1.92 |
| " | N | " " | 1 | June 8 | .90 | 30 | 1.80 |
| 1913 | N | Kington | 1 | Oct. 6 | 1.08 | 25 | 2.59 |
| 1915 | N | Kentchurch Rec. | 1 | July 4 | .85 | 30 | 1.70 |
| 1920 | N | Ross, Perrystone Ct. | 1 | June 17 | 1.07 | 30 | 2.14 |
| " | N | Almeley, The Bungalow | 1 | Mar. 30 | 1.06 | 43 | 1.40 |
| 1924 | N | Kimbolton, Grantsfield | 1 | June 17 | .78 | 20 | 2.34 |
| " | N | Ross, Perrystone Ct. | 1 | May 19 | .68 | 20 | 2.04 |
| " | V.R | Humber Rec. | 1 | May 31 | 2.99 | 105 | 1.71 |
| 1934 | R | Kimbolton, Grantsfield | 1 | July 12 | 1.50 | 45 | 2.00 |
| " | R | Sarnesfield Court | 1 | July 11 | 2.04 | 90 | 1.36 |
| 1935 | R | " " | 1 | June 5 | 1.35 | 30 | 2.70 |
| 1937 | N | Ross-on-Wye | 1 | July 15 | .83 | 30 | 1.66 |
| 1938 | N | Bromyard, Birchyfields | 1 | Aug. 5 | 1.17 | 60 | 1.17 |
| 1940 | N | Ross-on-Wye | 1 | Apr. 28 | 1.20 | 80 | .90 |
| 1942 | N | Hoarwithy | 1 | Mar. 18 | 1.10 | 55 | 1.20 |
| 1943 | N | Dorstone, Oaklands | 1 | Sep. 13 | 1.00 | 30 | 2.00 |
| " | N | Ross-on-Wye | 1 | Sep. 12 | 1.21 | 96 | .76 |
| 1955 | N | Hereford Sew. Wks. | 1 | July 13 | .88 | 30 | 1.76 |
| 1957 | V.R | Clifford School | 1 | Aug. 5 | 4.11 | 90 | 2.74 |
| 1958 | N | Presteigne, Middlemoor | 1 | Aug. 22 | 1.04 | 75 | .82 |
| 1960 | R | Vowchurch, Ladywell Ho. | 1 | Aug. 7 | 1.17 | 25 | 2.81 |

Key. N = Noteworthy
R = Remarkable
V.R = Very Rare

} Classification used in British Rainfall.

| | | |
|---|---|---|
| Pembrokeshire | 1 | Teifi |
| | 2 | Nevern & C |
| | 3 | West Coast Streams |
| | 4 | Cleddau |
| Carmarthenshire | 1 | Teifi |
| | 2 | Towy & C |
| | 3 | Loughor & C |
| | 4 | Tawe |
| | 5 | Usk |
| | 6 | Wye |
| Cardiganshire | 2 | Ystwyth & C |
| | 3 | Teifi |
| | 4 | Towy |
| | 5 | Wye |

| | | |
|---|---|---|
| Glamorganshire | 1 | Loughor |
| | 2 | Gower Peninsula |
| | 3 | Tawe |
| | 4 | Neath |
| | 5 | Ogmore |
| | 6 | Taff |
| | 7 | Rhymney |
| Radnorshire | 1 | Wye |
| Brecknockshire | 1 | Towy |
| | 2 | Tawe |
| | 3 | Neath |
| | 4 | Taff |
| | 5 | Rhymney |
| | 6 | Ebbw |
| | 7 | Usk |
| | 8 | Wye |
| Montgomeryshire | 2 | Ystwyth |
| Monmouthshire | 1 | Rhymney |
| | 2 | Ebbw |
| | 3 | Usk and C |
| | 4 | Wye |
| Gloucestershire | 1 | Wye |
| Herefordshire | 1 | Wye |

Fig 1a.

Average Monthly Rainfall as a percentage of Average Annual Rainfall (1916-1950) January - June.

Fig 1b.

Average Monthly Rainfall as a percentage of Average Annual Rainfall (1916-1950) July - December.

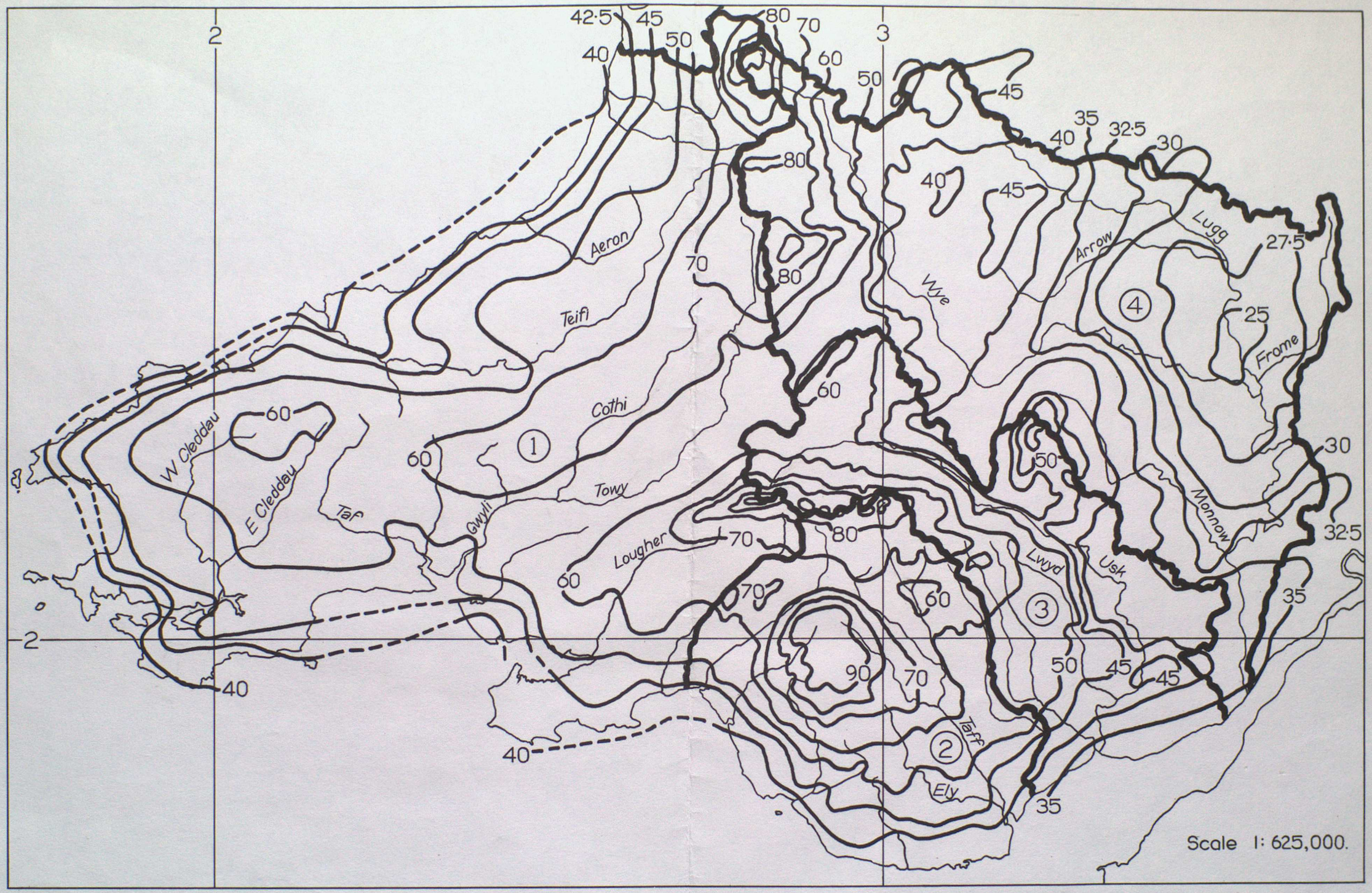


Fig 2. AVERAGE ANNUAL RAINFALL 1916-1950, (in inches) over the River Board areas of :- ① South West Wales

② Glamorgan

③ the Usk

④ the Wye